

SERVICE MANUAL

19" LCD Monitor L1940T Series



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Table of Contents	
Table of Contents	02
Revision List	03
1. Monitor Specification	04
2. LCD Monitor Description	05
3. Operation Instructions	05
3.1 General Instructions	05
3.2 Control Button	06
3.3 Adjusting The Picture	06
4. Input/Output Specification	09
4.1 Input Signal Connector	09
4.2 Factory Preset Display Modes	11
4.3 Power Supply Requirements	11
5. Panel Specification	12
5.1 General Feature	12
5.2 Optical Characteristics	13
6. Monitor Exploded View	14
7. Repair Flow Chart	15
8. Trouble Shooting	18
9. Block Diagram	19
10. Schematic	20
10.1 Main Board	20
10.2 Inverter/Power Board	25
10.3 Key Board	29
11. PCB Layout	31
11.1 Main Board	31
11.2 Inverter/Power Board	32
11.3 Key Board	33
12. Maintainability	34
13. White-Balance, Luminance Adjustment	35
14. Check List after replacing LCD Main board	37
14.1 Check white-balance	37
14.2 Steps for writing DDC	37
15. EDID Content	52
16. BOM List	53~64

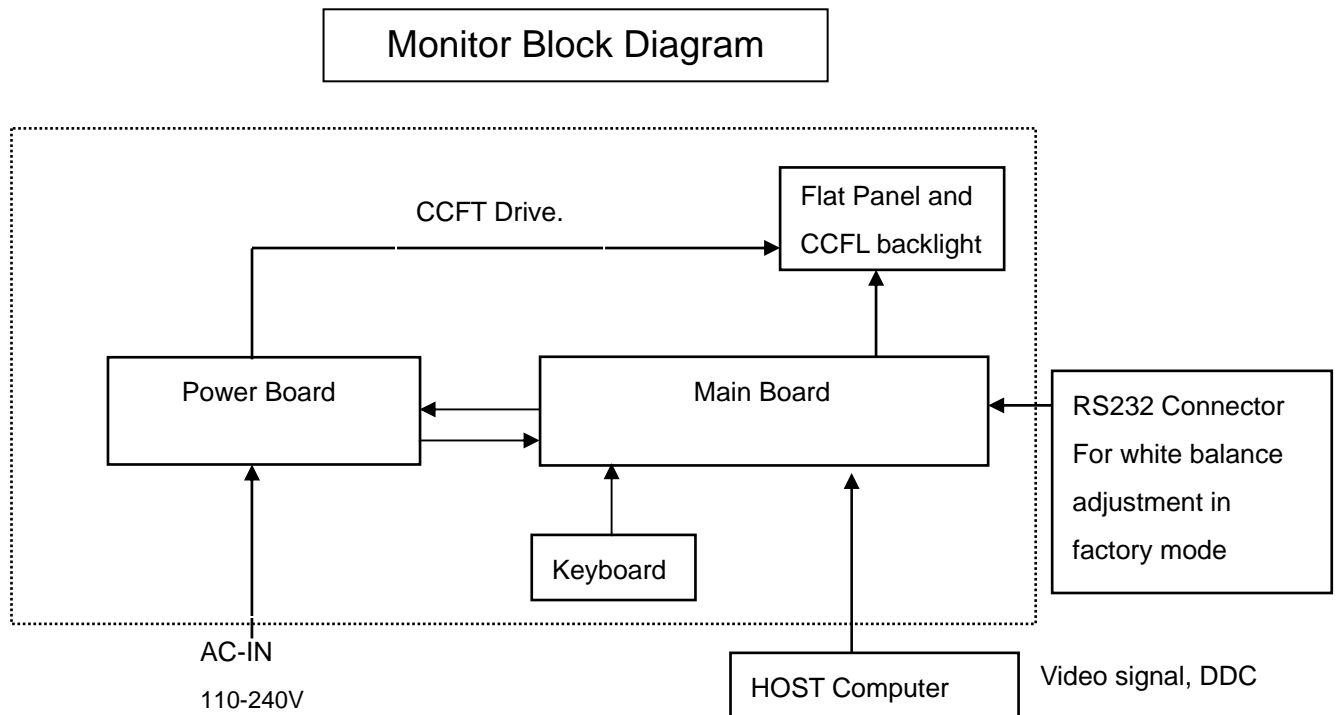
1. Monitor Specifications

LCD Panel	Driving system	TFT Color LCD
	Panel	M190E5-L0A
	Active Area	376.32(H) x 301.056(V) (19.0")
	Pixel pitch	0.294(H)x 0.294mm(V)
	Viewing Angles(Min / TYP)	H:120/140; V:110/130
	Response time (typ.)	< 8 ms
	Brightness	200 nits
	Contrast	450:1
	Video	Analog /Digital
Input	Sync. Type	H/V TTL
	H-Frequency	30kHz – 83kHz
	V-Frequency	56Hz – 76Hz
Display Colors	Over 16 million Colors	
Pixel Clock	140MHz	
Max. Resolution	1280 x 1024	
Plug & Play	VESA DDC2B™	
Power Consumption	ON Mode	≤70W
	OFF Mode	<1W
	Sleep Mode	<2W
Power Source	100~240VAC,47~63Hz	
Environmental Considerations	Operating Temp: 5°C to 35°C Storage Temp.: -20°C to 60°C Operating Humidity: 20% to 80%	
Main Dimensions	Unpackaged(W*H*D)	413mm*477mm*265mm
	Packaged(W*H*D)	524mm*513mm*239mm
Weight (N. W.)	Packaged	10.22Kg Unit max
	Unpackaged	8.4Kg Unit max
Altitude	Operating	0 to 12,000 feet
	Non-Operating	0 to 40,000 feet

2. LCD Monitor Description

The LCD Monitor will contain main board, power board, key board and which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



3. Operation Instructions

3.1 General Instructions

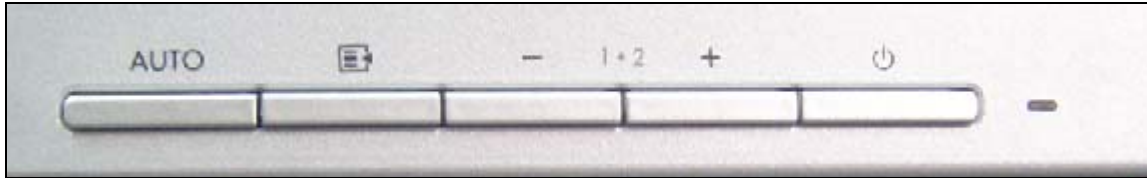
Press the power button to turn the monitor on or off. The other control buttons are located at front of the panel. By changing these settings, the picture can be adjusted to your personal performance.

- The power cord should be connected .
- Connect the video cable from the monitor to the computer VGA card.
- Press the power button to turn on the monitor, the power indicator will light up to Green.

3.2 Control Buttons

- Power Indicator:

Green — Power On mode.
 Orange — Power Saving mode.
 Blank —Power Off Mode.



Auto Adjust : Activates the auto adjustment feature for optimum image.

Menu : Opens the ON-Screen Display(OSD) menu.

Minus (-) : 1、 If OSD is on, press to navigate backward through the OSD menu features and decrease adjustment levels.

2、 If OSD is off, press to enable the DVI signal input (available on select models).

plus (+) : 1、 If OSD is on, press to navigate forward through the OSD menu features and increase adjustment levels.

2、 If OSD is off, press to enable the VGA signal input.

Power: Turns the monitor on or off.

3.3 Adjust the Picture

Main Menu

Press the "Menu" button, the Main Menu should be come on the screen of the monitor



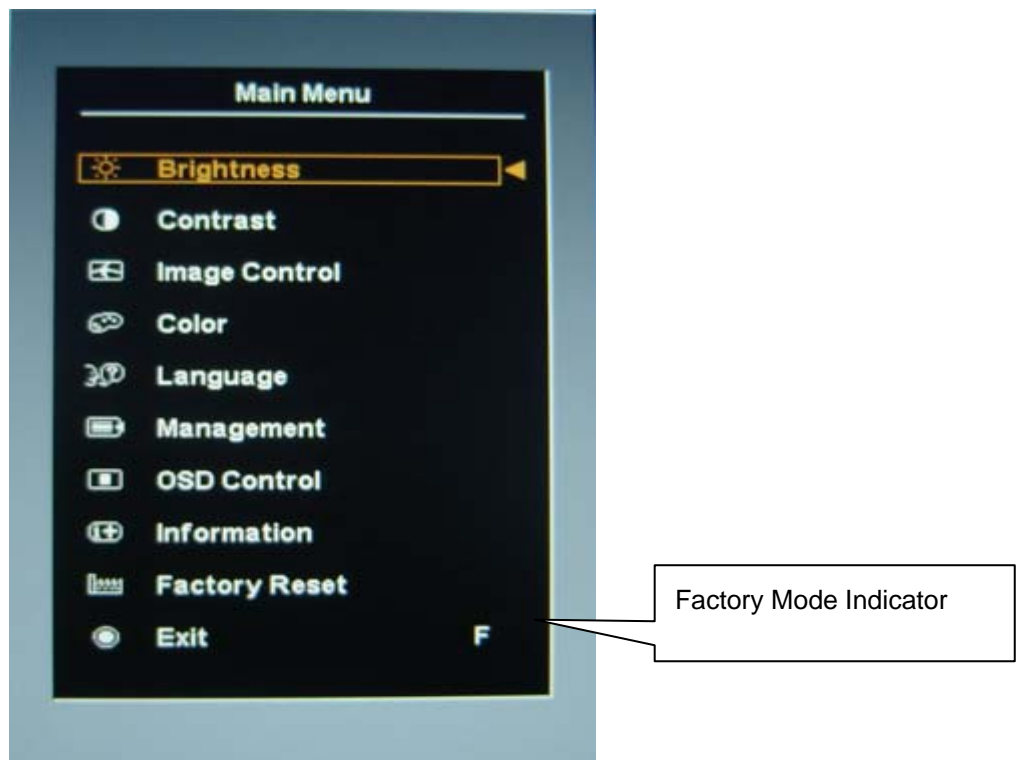
Service Mode

Press and hold the "Menu" button, Power off -> on "Power", then into the service mode, Press "menu" button to bring to OSD menu for confirmation as below:






























Factory Mode

- 1、Turn off monitor.
- 2、[Push "Auto Adjust" and "+" (plus)" and hold them at the same time]+ [Press power "Power" button until comes out "windows screen"] => then release all button, then press "Menu" button, wait until the OSD menu with Characters "F" (below OSD menu) come on the Screen of the monitor as below:
- 3、Push "Menu" to exit OSD menu.



Menu icons

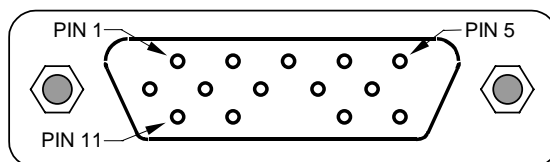
No.	Control	Icon
1	Brightness	
2	Contrast	
3	Auto Adjustment	
4	Image Control	
5	Color	
6	Custom Color	
7	Language	
8	Management	
9	OSD Control	
10	Information	
11	Factory Reset	
12	Default Video Input	
13	Horizontal Position	
14	Vertical Position	
15	Clock	
16	Clock Phase	
17	Power Saver	
18	Mode Display	
19	Power-On Status Display	
20	Sleep Timer	
21	Basic Menu	
22	Advanced Menu	
23	Power On Recall	
24	Horizontal OSD Position	
25	Vertical OSD Position	
26	OSD Timeout	
27	OSD Transparency	
28	Exit	

4. Input/Output Specification

4.1 Input Signal Connector

Analog Connector Pinout					
Pin	Mnemonic	Signal	Pin	Mnemonic	Signal
1	RV	Red Video	9	+5 V	+5 V (from PC)
2	GV	Green Video	10	SG	Sync Ground
3	BV	Blue Video	11	NC	None
4	NC	None	12	SDA	DDC Data
5	GND	GND / Cable Detect	13	HS	Horizontal Sync
6	RG	Red GND	14	VS	Vertical Sync
7	GG	Green GND	15	SCL	DDC Clock
8	BG	Blue GND			

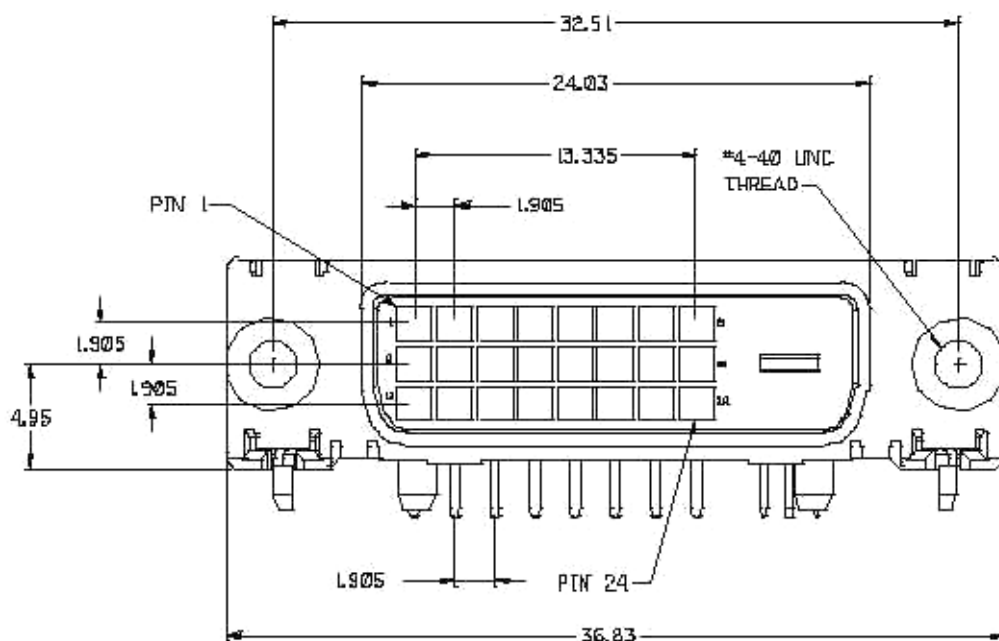
VGA connector layout



DVI-D Digital Connector Pins

Pin.	Mnemonic	Signal	Pin.	Mnemonic	Signal
1	TX 2 -	TMDS Negative differential input, channel 2	13	TX 3 +	TMDS Data 3 +
2	TX 2 +	TMDS Positive differential input, channel 2	14	+5V	+5V Power
3	SHLD 2 / 4	Shield for TMDS channels 2 / 4	15	GND	GND / Cable Detect
4	TX 4 -	TMDS Data 4 -	16	HPD	Hot Plug Detect
5	TX 4 +	TMDS Data 4 +	17	TX 0 -	TMDS Data 0 -
6	DDC Clk	DDC Clock	18	TX 0 +	TMDS Data 0 +
7	DDC Data	DDC Data	19	SHLD 0 / 5	TMDS Data 0 / 5 Shield
8	AVS	Analog Vertical Sync	20	TX 5 -	TMDS Data 5 -
9	TX 1 -	TMDS Data 1 -	21	TX 5 +	TMDS Data 5 +
10	TX 1 +	TMDS Data 1 +	22	TX CLK SHLD	TMDS Clock Shield
11	SHLD 1 / 3	TMDS Data 1 / 3 Shield	23	TX CLK +	TMDS Clock +
12	TX 3 -	TMDS Data 3 -	24	TX CLK -	TMDS Clock -

DVI-D Digital Connector Pins



4.2 Factory Preset Display Modes

Preset	Pixel Format	Horz Freq (KHz)	Horz Polarity	Vert Freq (Hz)	Vert Polarity	Pixel Clk (MHz)	Source
1	640 x 480	31.469	-	59.940	-	25.175	VGA
2	640 x 480	37.861	-	72.809	-	31.500	VESA
3	640 x 480	37.500	-	75.000	-	31.500	VESA
4	720 x 400	31.469	-	70.087	+	28.322	VGA
5	800 x 600	37.879	+	60.317	+	40.000	VESA
6	800 x 600	48.077	+	72.188	+	50.000	VESA
7	800 x 600	46.875	+	75.000	+	49.500	VESA
8	832 x 624	49.726	±	74.551	±	57.284	MAC
9	1024 x 768	48.363	-	60.004	-	65.000	VESA
10	1024 x 768	56.476	-	70.069	-	75.000	VESA
11	1024 x 768	60.023	+	75.029	+	78.750	VESA
12	1152 x 870	68.68	-	75.06	-	100.000	Mac
13	1152 x 900	71.71	-	76.05	-	105.561	Sun
14	1280 x 1024	63.98	+	60.02	+	108.000	VESA
15	1280 x 1024	79.97	+	75.02	+	135.000	VESA

4.3 Power Supply Requirements

PARAMETER	RANGE
AC Input Voltage	90 to 265V
AC Input Frequency	47 to 63 Hz
Inrush Current	50A MAX AT 220VAC and 30A AT 120VAC
Leakage Current	5 mA MAX at 120VAC
Power consumption	≤70W

5. Panel Specification

5.1 General Feature

- Wide viewing angle.
- High contrast ratio
- Super fast response time
- High color saturation
- SXGA (1280 x 1024 pixels) resolution
- DE (Data Enable) only mode
- LVDS (Low Voltage Differential Signaling) interface
- RoHS Compliance

Item	Specification	Unit	Note
Active Area	376.32 (H) x 301.056 (V) (19.0" diagonal)	mm	(1)
Bezel Opening Area	380.2(H) x 305(V)	mm	
Driver Element	a-si TFT active matrix	-	-
Pixel Number	1280 x R.G.B. x 1024	pixel	-
Pixel Pitch	0.294 (H) x 0.294 (V)	mm	-
Pixel Arrangement	RGB vertical stripe	-	-
Display Colors	16.2M	color	-
Transmissive Mode	Normally White	-	-
Surface Treatment	Hard coating (3H), Anti-glare (Haze 25)	-	-

5.2 Optical Characteristics

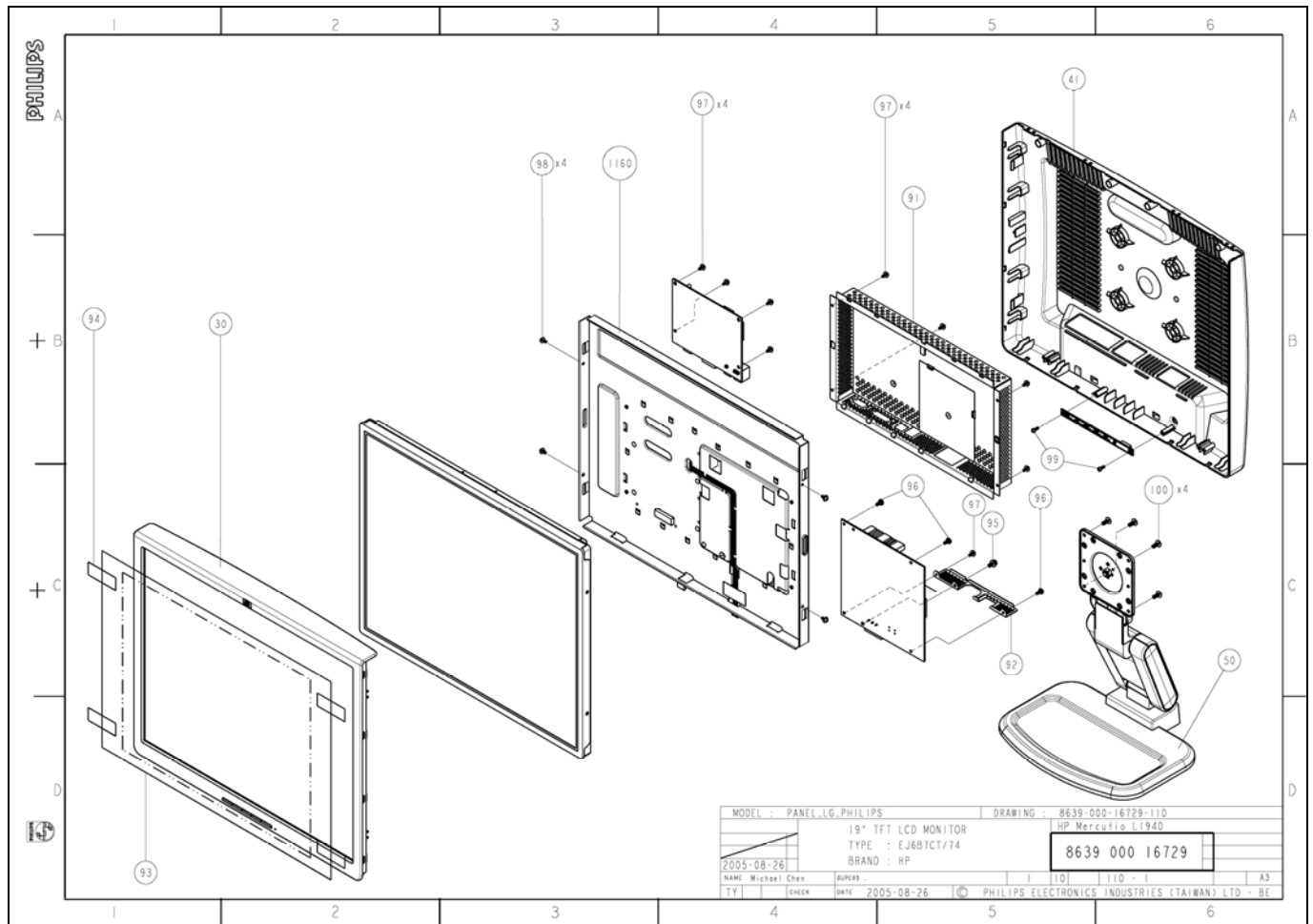
Test Conditions

Item	Symbol	Value	Unit
Ambient Temperature	Ta	25±2	°C
Ambient Humidity	Ha	50±10	%RH
Supply Voltage	V _{CC}	5.0	V
Input Signal	According to typical value in "3. ELECTRICAL CHARACTERISTICS"		
Lamp Current	I _L	7	mA
Inverter Operating Frequency	F _L	61	KHz
Inverter	SUMIDA H05 5307		

Optical Specifications

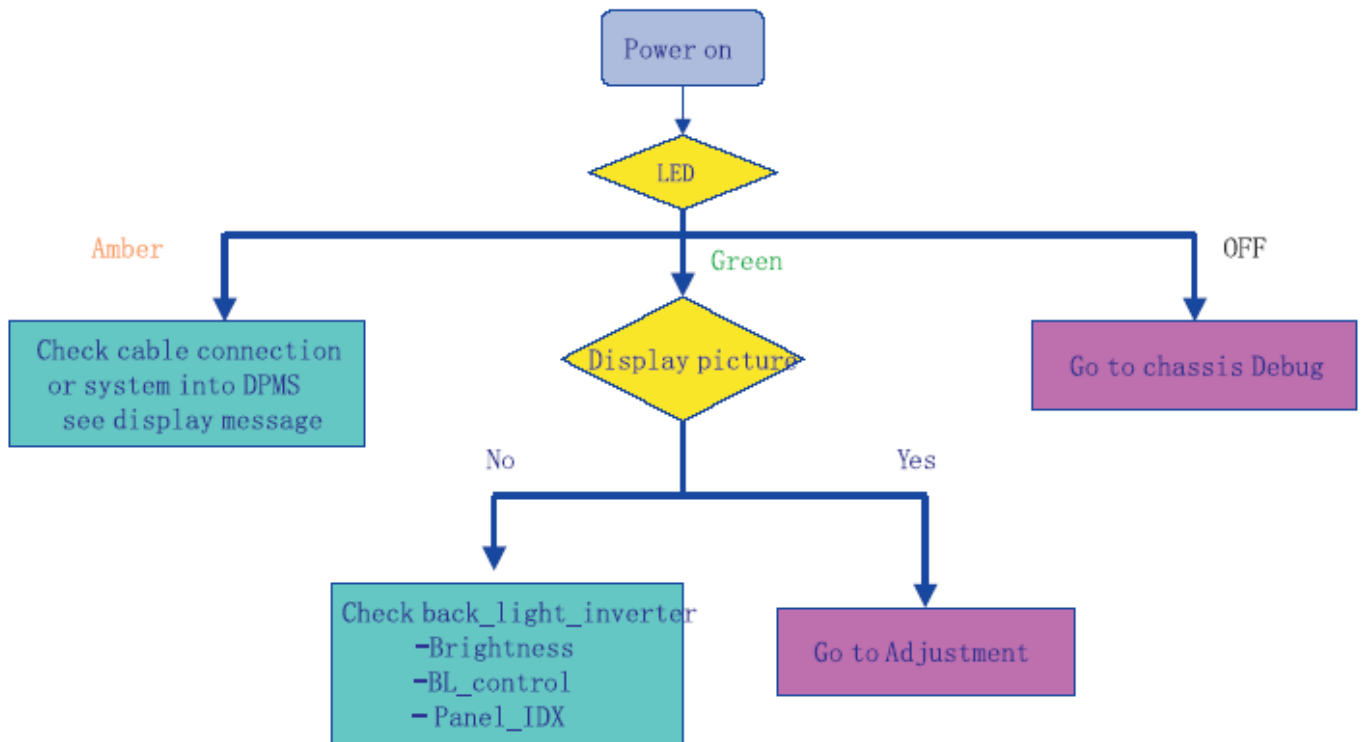
Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Color Chromaticity	Red	R _x	$\theta_x=0^\circ, \theta_Y=0^\circ$ CS-1000T	Typ – 0.03	0.645	Typ + 0.03	
		R _y			0.332		
	Green	G _x			0.285		
		G _y			0.600		
	Blue	B _x			0.151		
		B _y			0.074		
	White	W _x			0.313		
		W _y			0.329		
	Center Luminance of White				L _C		
Contrast Ratio		CR	450	700	---	-	
Response Time		T _R	$\theta_x=0^\circ, \theta_Y=0^\circ$	---	2	4	ms
		T _F		---	6	12	
White Variation		δW	$\theta_x=0^\circ, \theta_Y=0^\circ$ BM-5A	---	1.25	1.40	-
Cross Talk		CT		---	---	5.0	%
Viewing Angle	Horizontal	θ _x +	CR ≥ 10 BM-5A	65	75	---	Deg.
		θ _x -		65	75	---	
	Vertical	θ _y +		60	70	---	
		θ _y -		50	60	---	

6. Monitor Exploded View

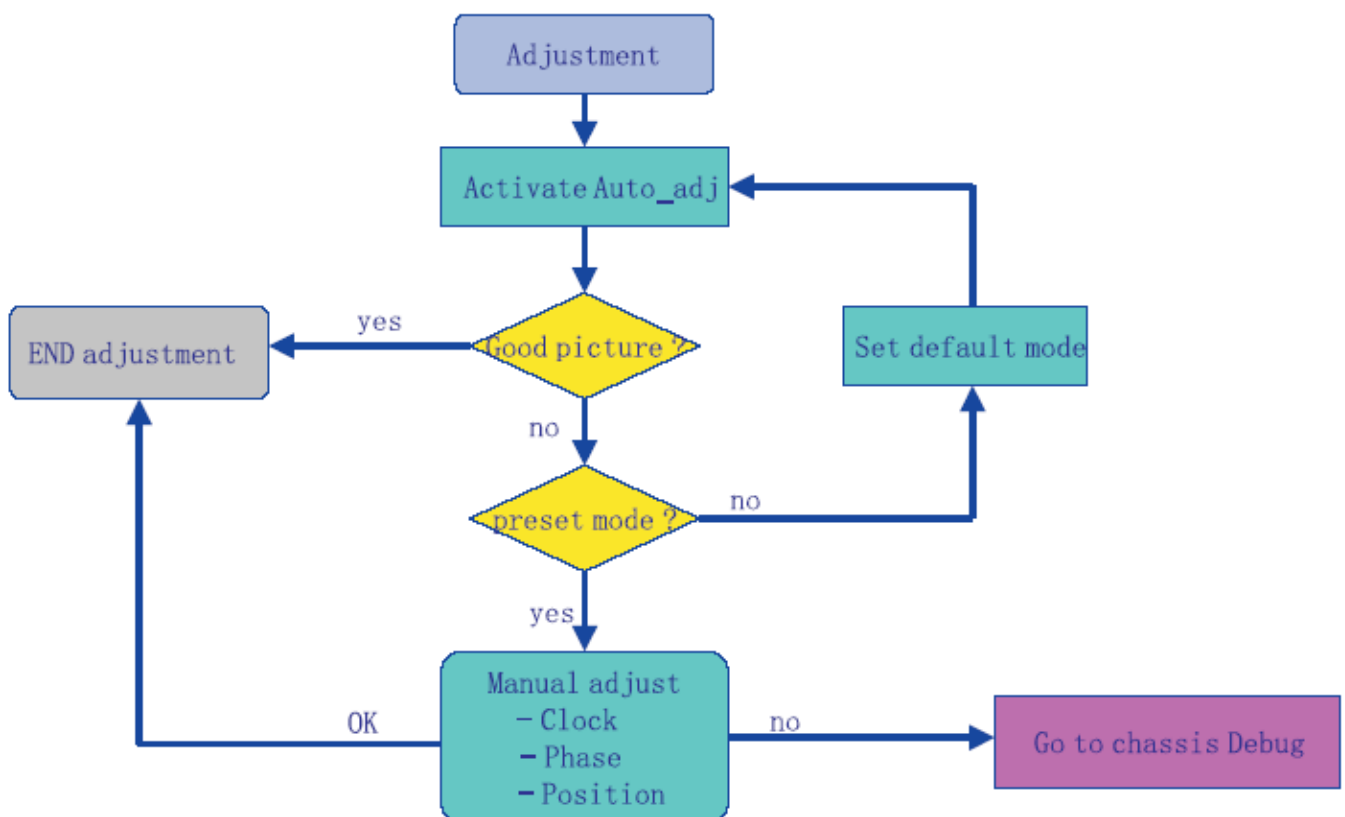


7. Repair Flow Chart

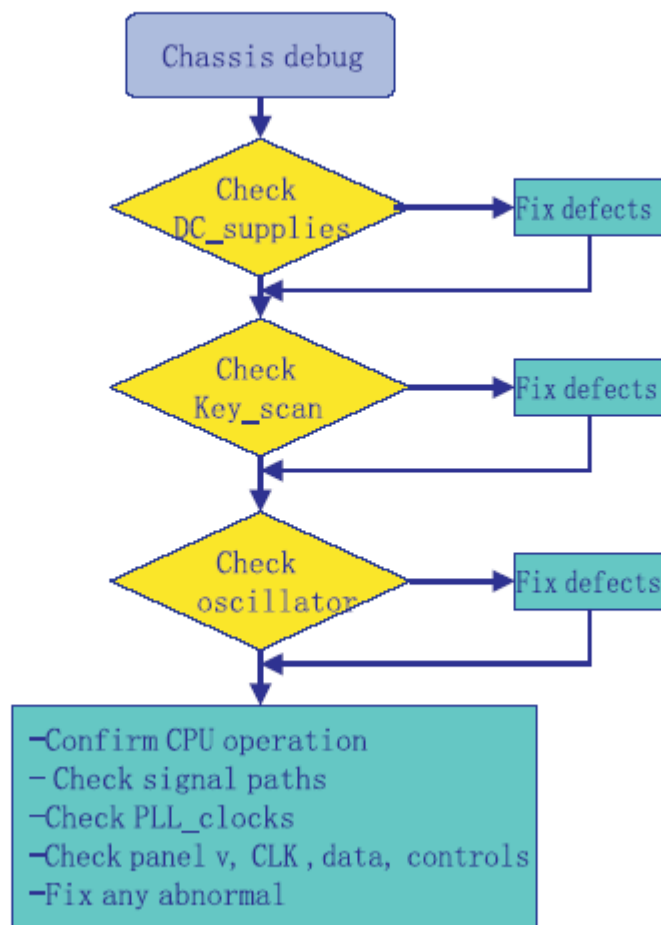
Preparation : make sure mains supply and video signal are well settled



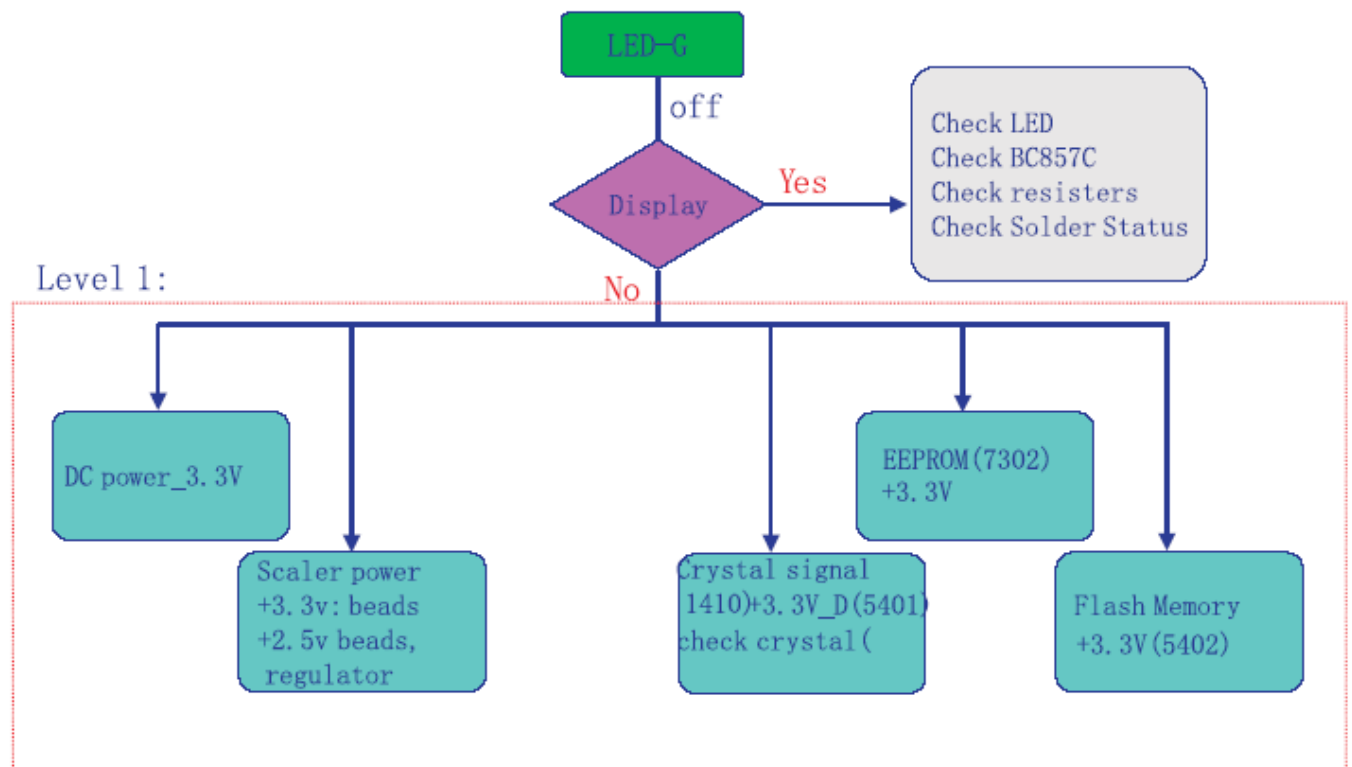
Preparation : dot alternation pattern or windows background.



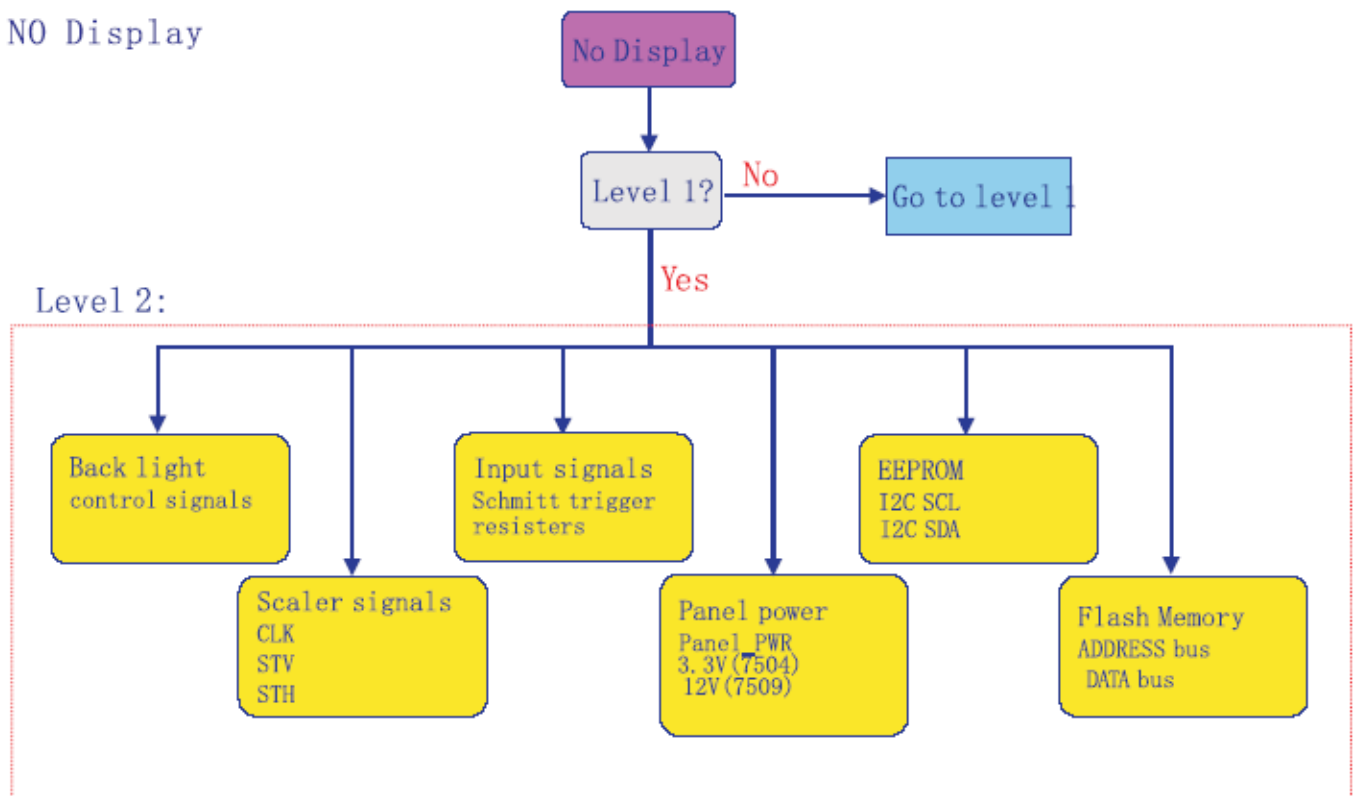
Preparation : before chassis debugging, first check all wire harness, remove intrusions, and find errors by visual



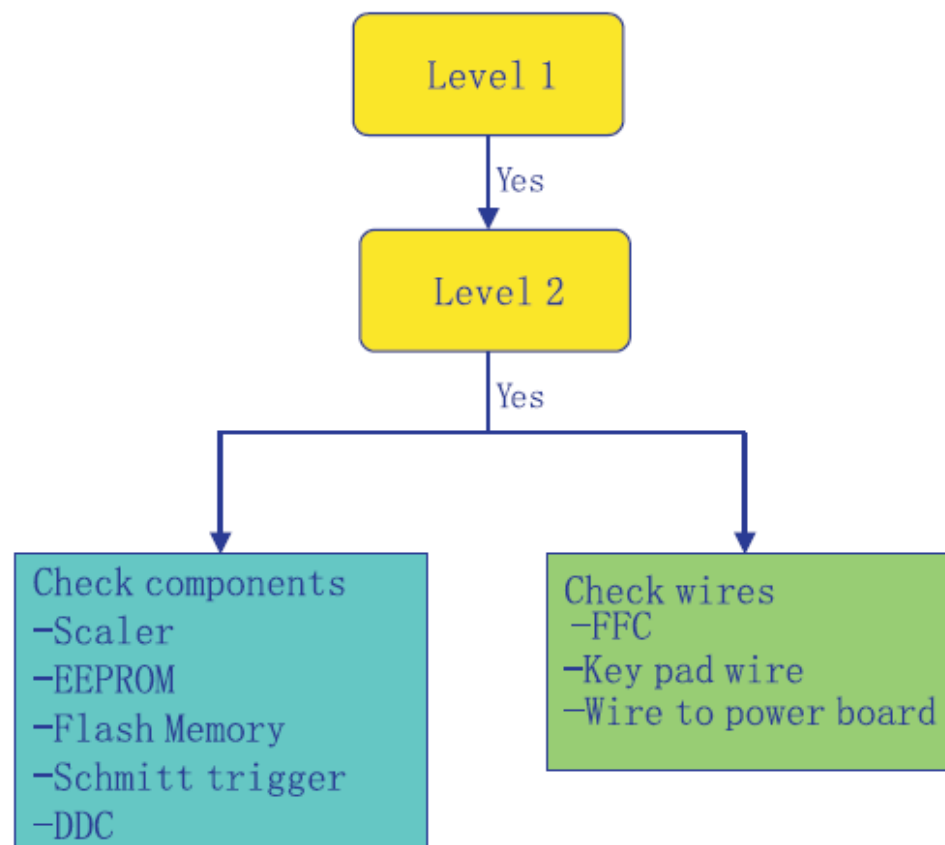
LED -G OFF



NO Display



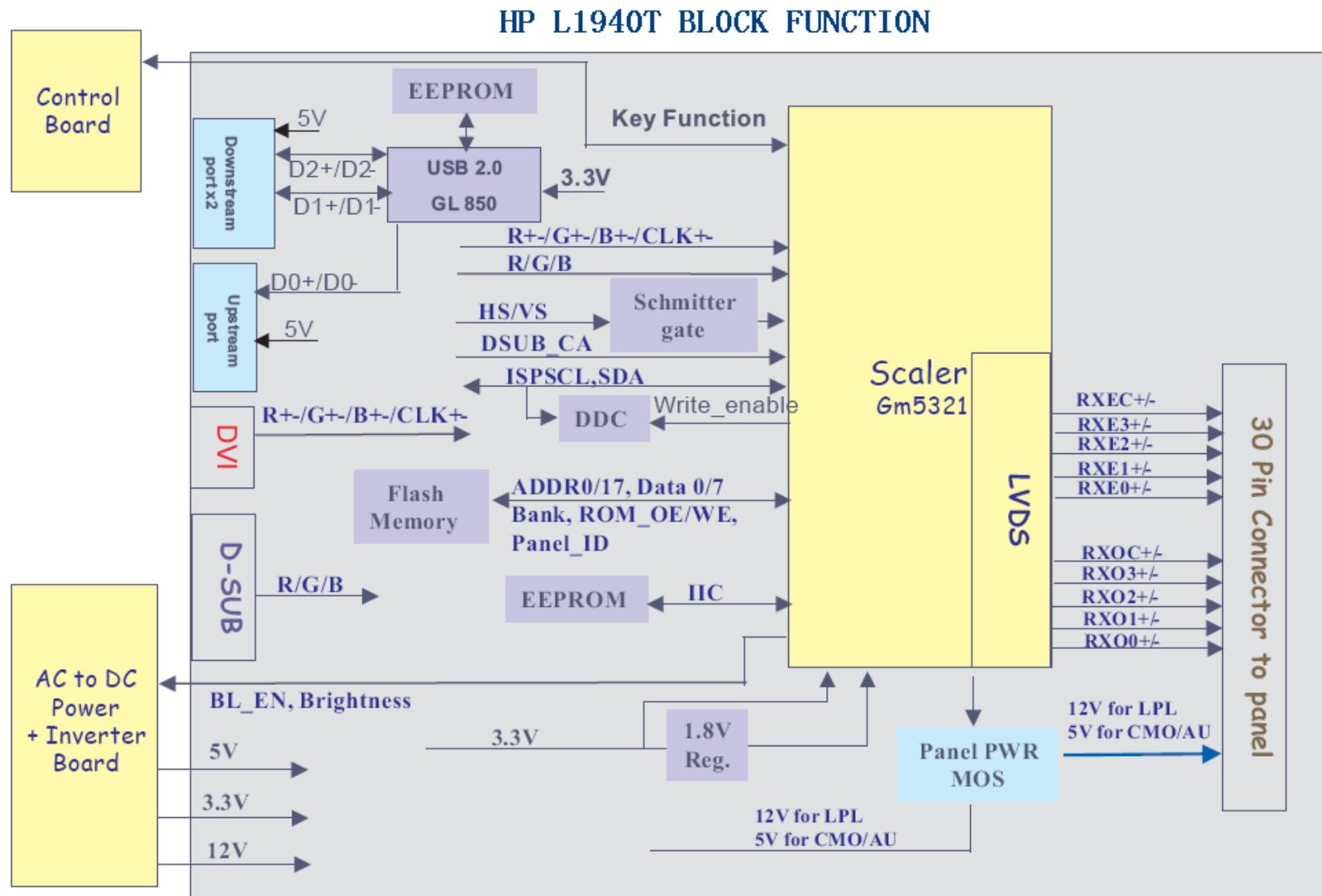
Other Defects



8. Troubleshooting

Problem	Possible Cause	Solution
Screen is blank.	Power cord is disconnected. Power switch is turned Off. Video cable is improperly connected. Screen blanking utility is active.	Connect the power cord. Turn on the power. Connect the video cable properly. Depress any key on the keyboard or move the mouse to inactivate the screen blanking Utility.
Image appears blurred, indistinct, or too dark.	Brightness and contrast are too low	Press the Minus button on the monitor front panel to auto-adjust the screen. If that Does not work, press the Menu button to open the Basic OSD Menu, and adjust the brightness and contrast scales as needed.
Image is not Centered.	Position may need Adjustment	When OSD is inactive, press-(minus. button) to auto-adjust the screen image. Press the Menu button to access the Advanced OSD menu. Select Image Control/Horizontal Position or Vertical Position to adjust the horizontal or vertical position of the image.
Check Video Cable is displayed on screen.	Monitor video cable is disconnected.	Connect the 15-pin monitor video cable to the VGA connector on the computer. Be sure that the computer power is off while: connecting the video Cable.
(Input Signal Out of Range) is displayed on screen.	refresh rate are set higher than what your monitor supports.	Restart your computer and enter Windows Safe Mode by pressing the F6 Function key when the computer starts to boot up. Change your settings to a supported setting. Restart your computer so that the new settings take effect.

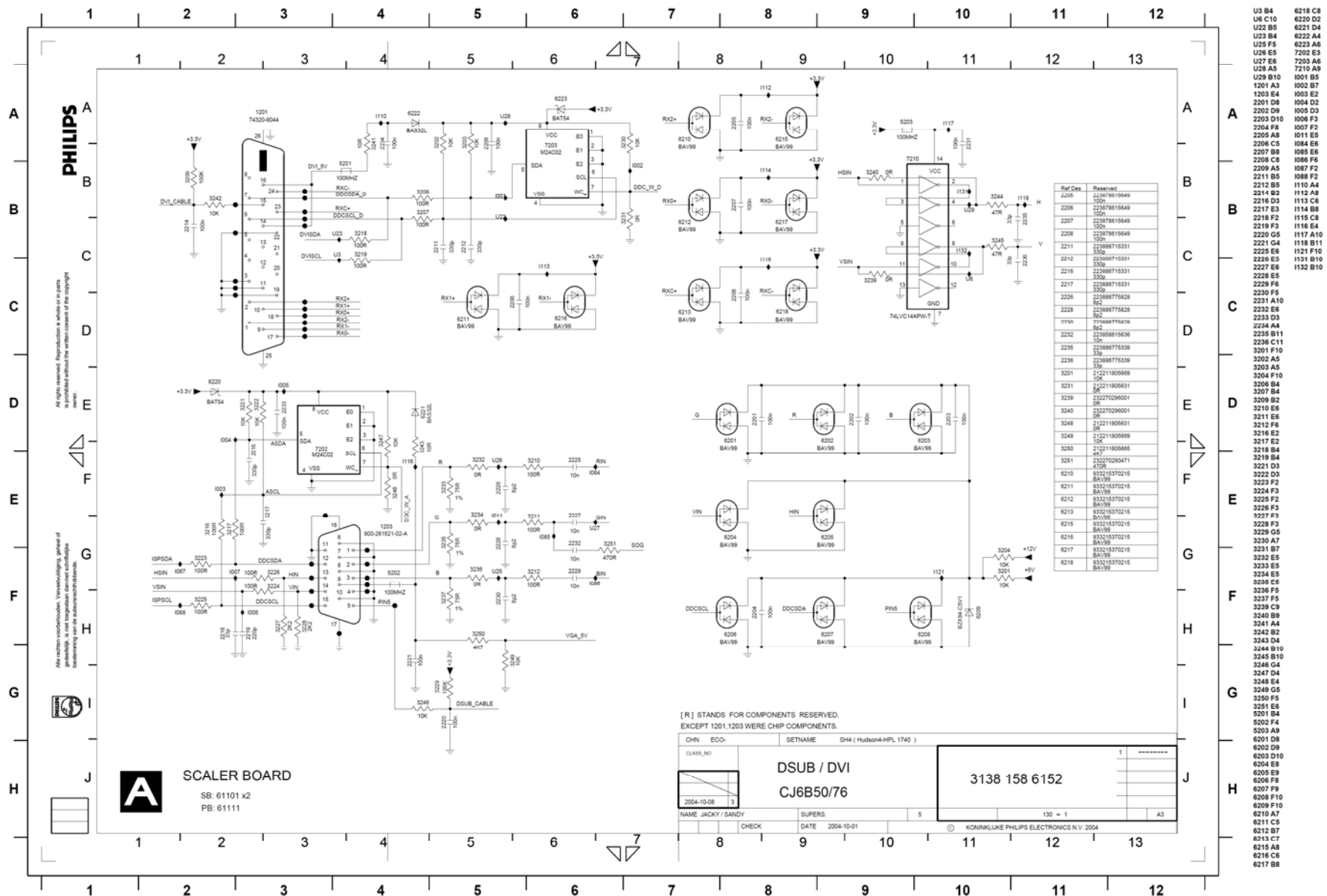
9. Block Diagram

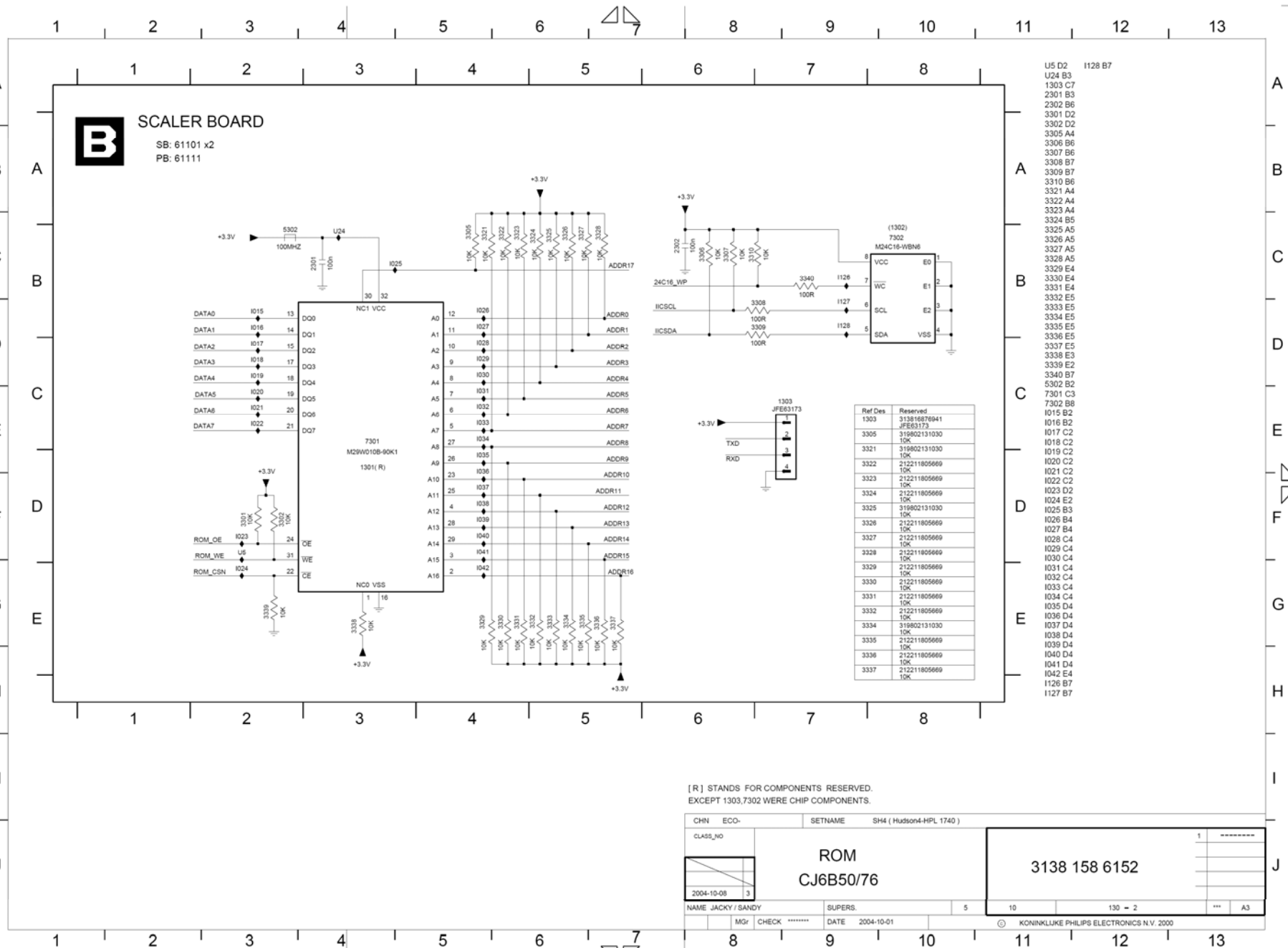


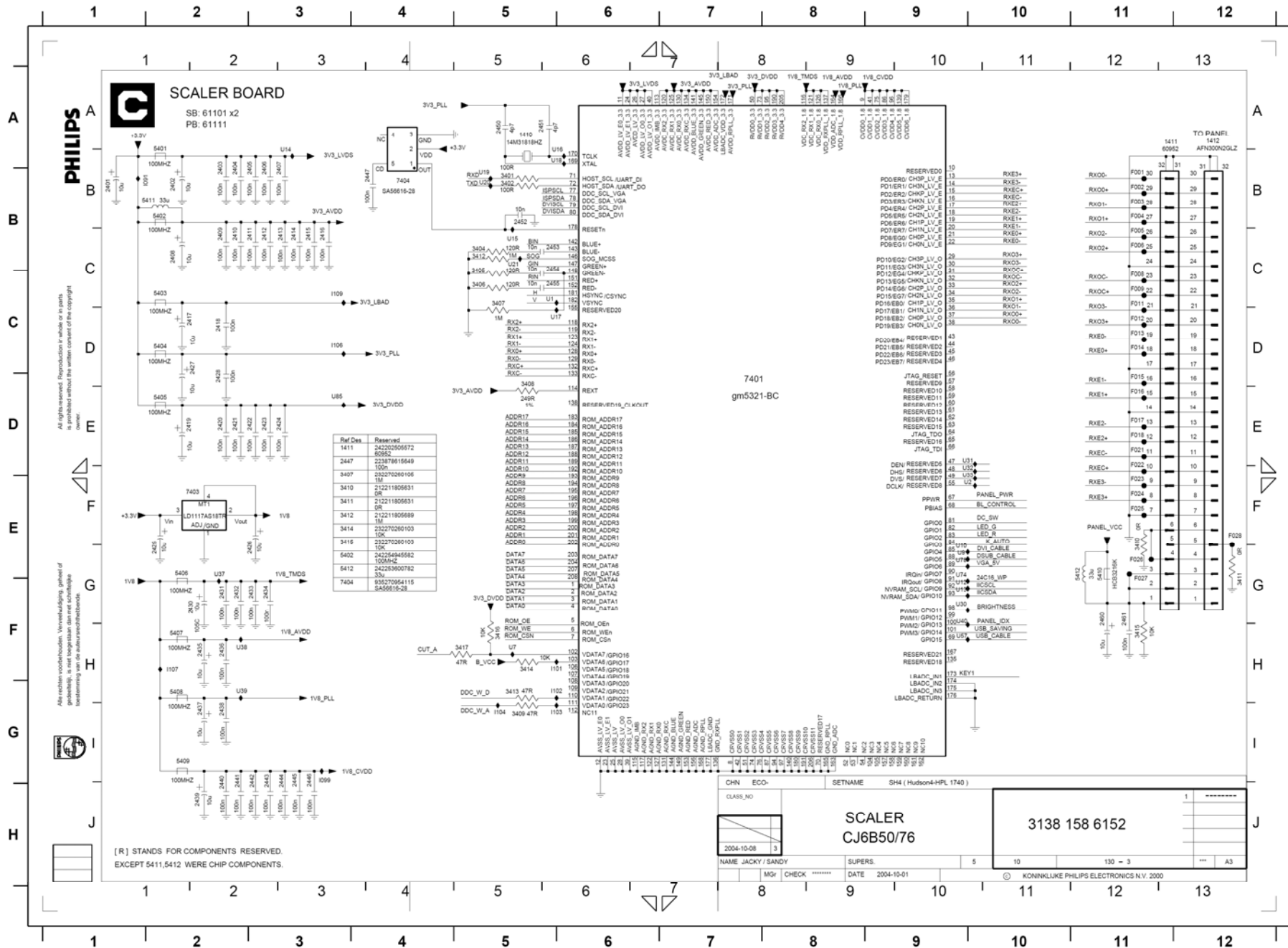
10. Schematic

10.1 Main Board

HP L1940T



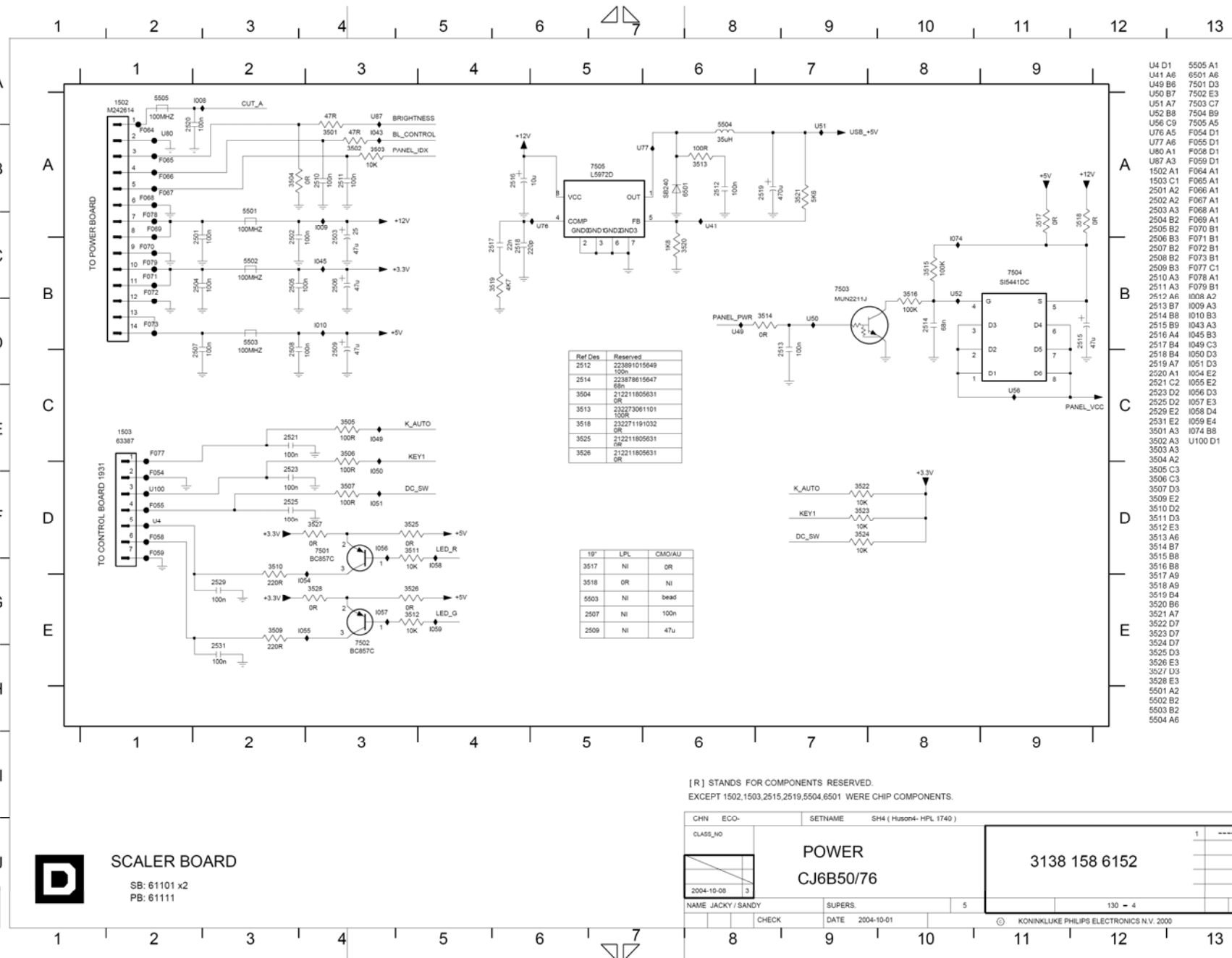


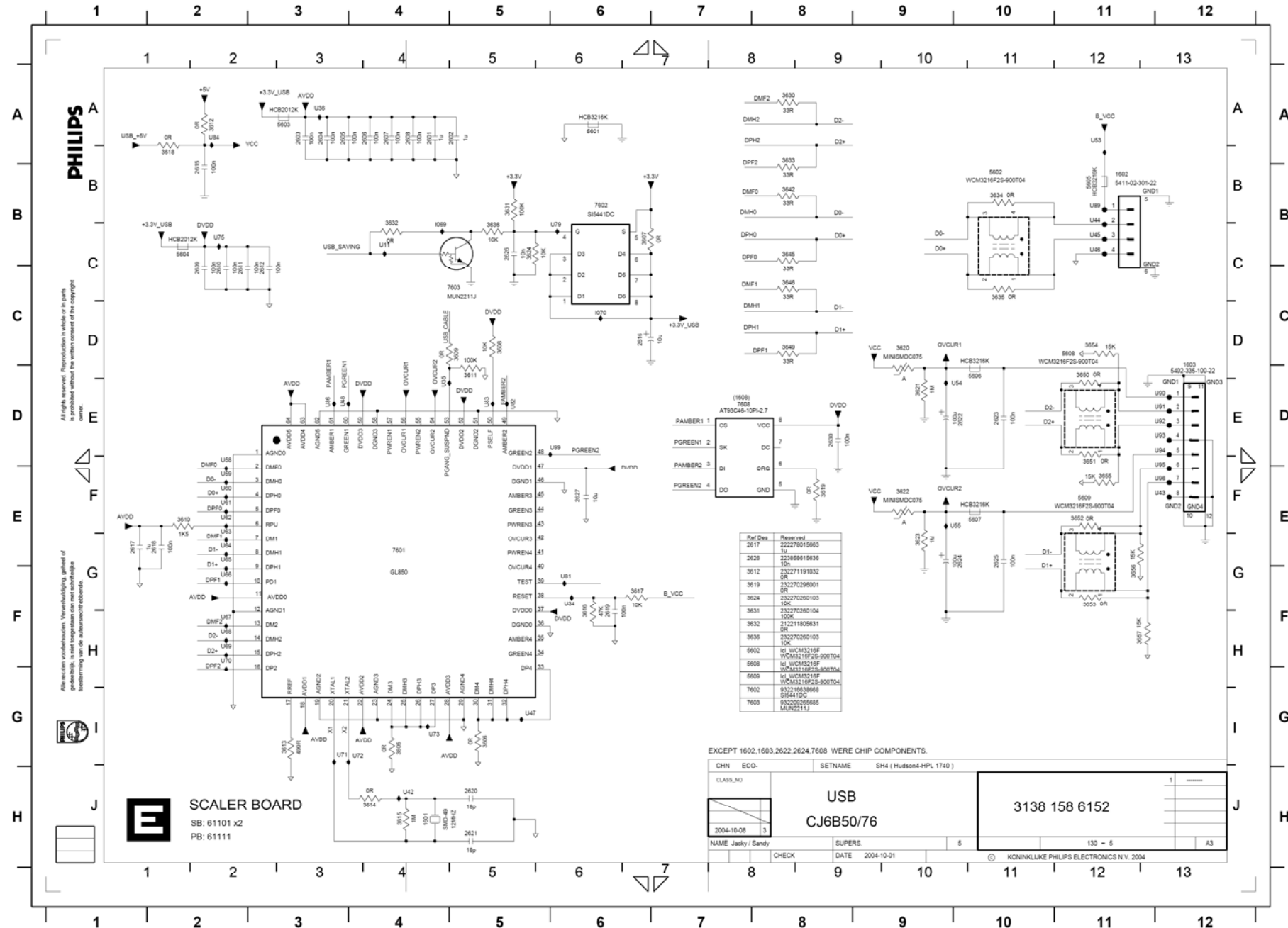


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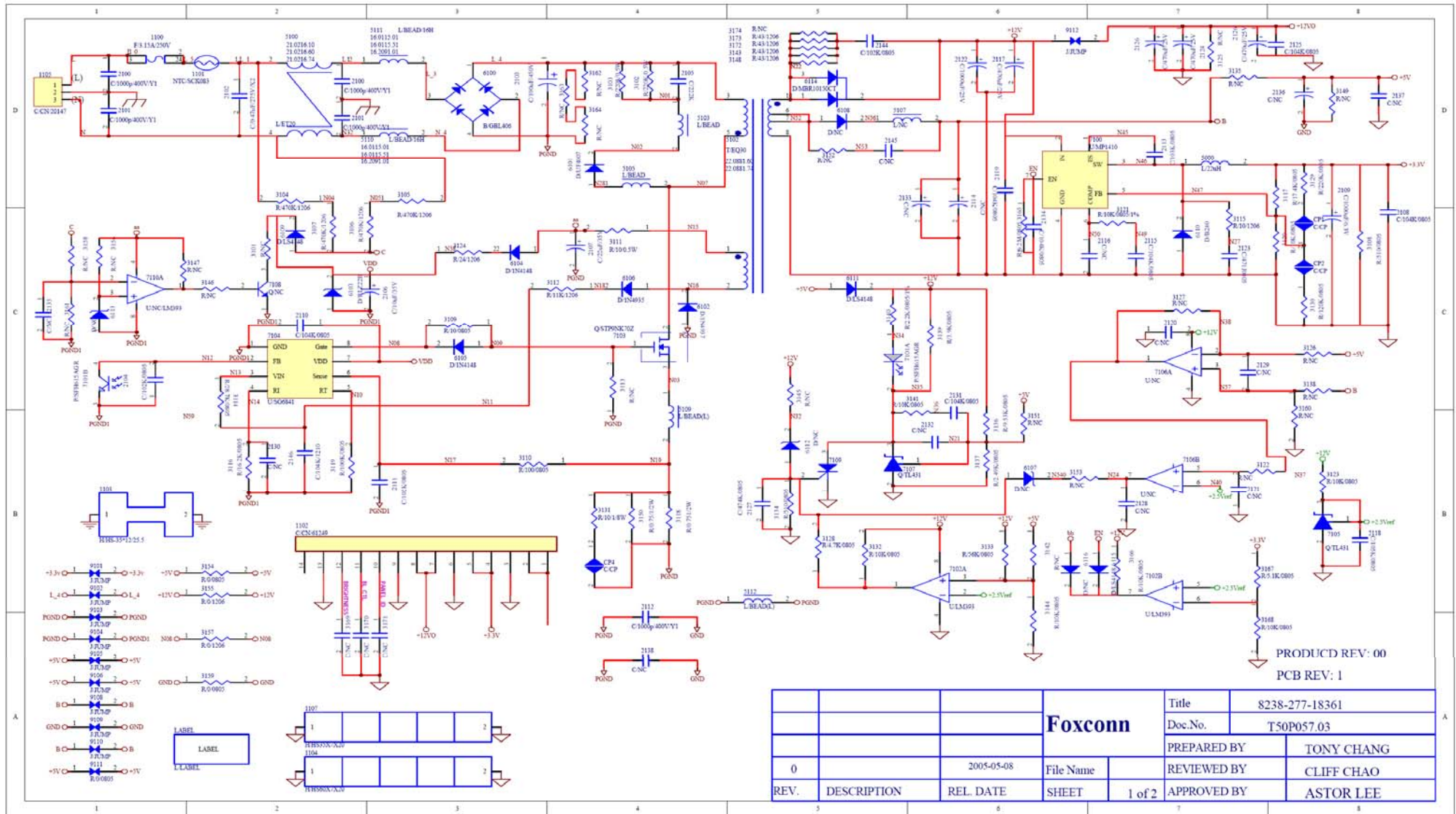
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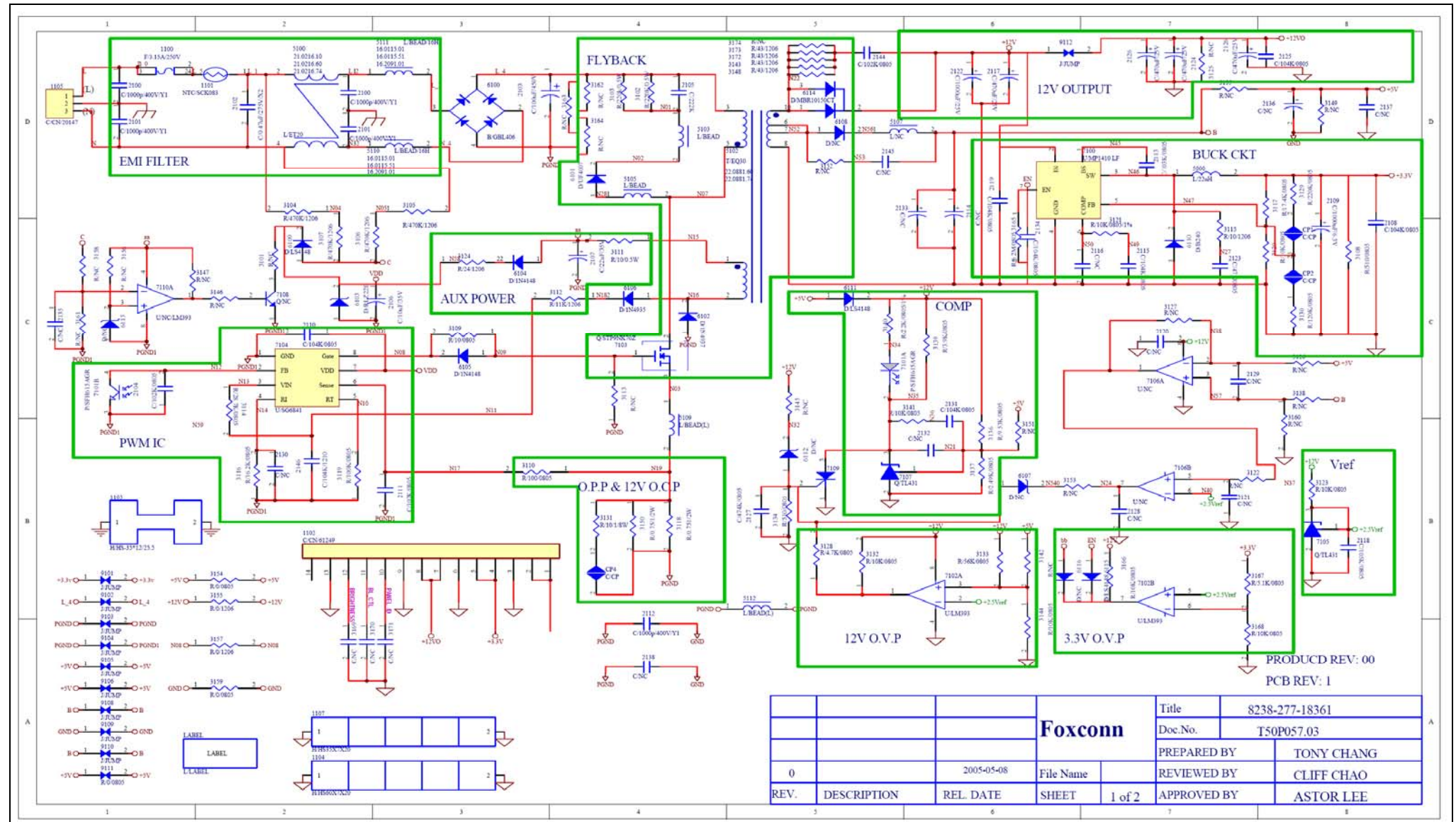
10.2 Power Board (include inverter and power)

AC/DC Schematic

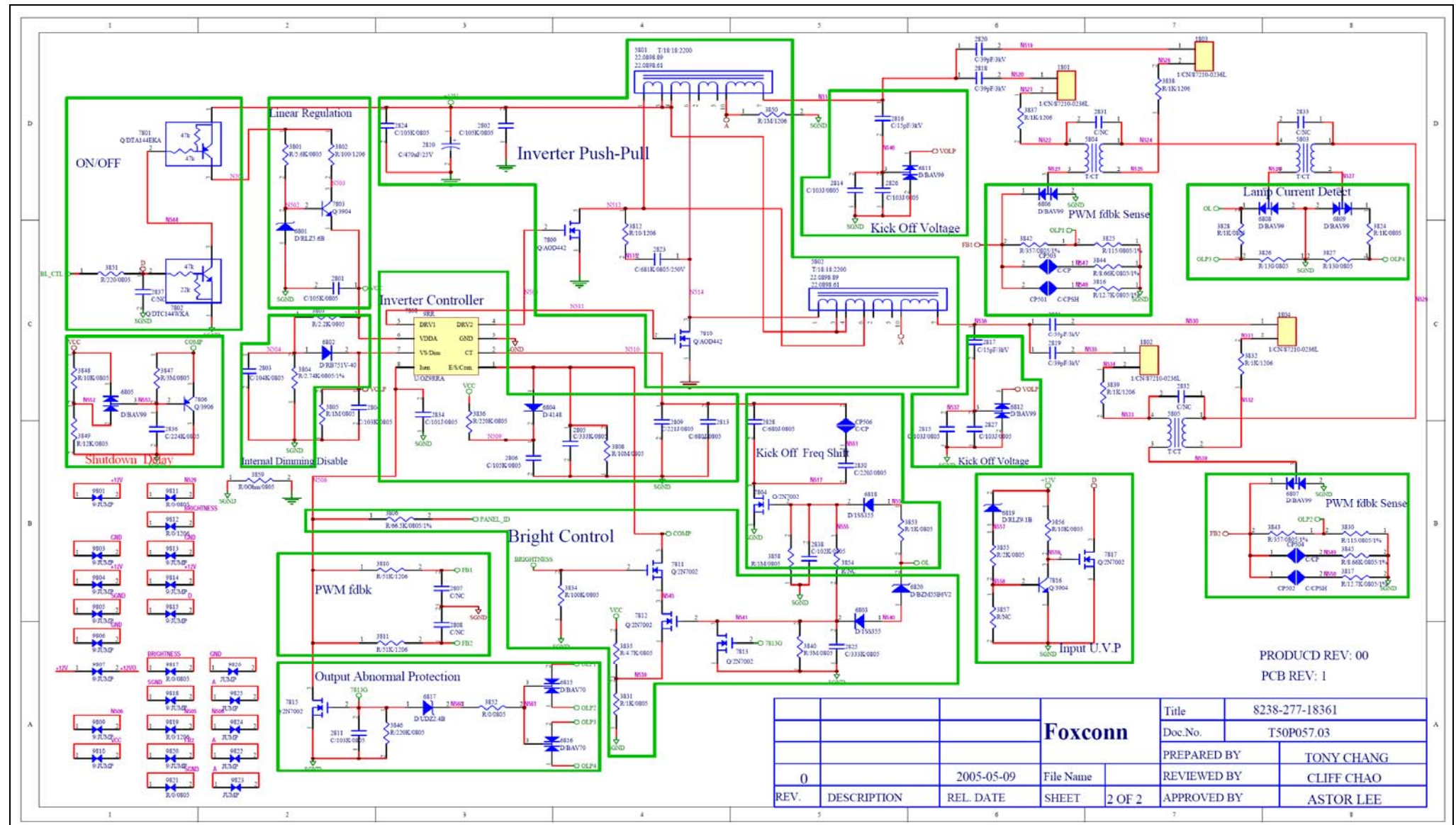




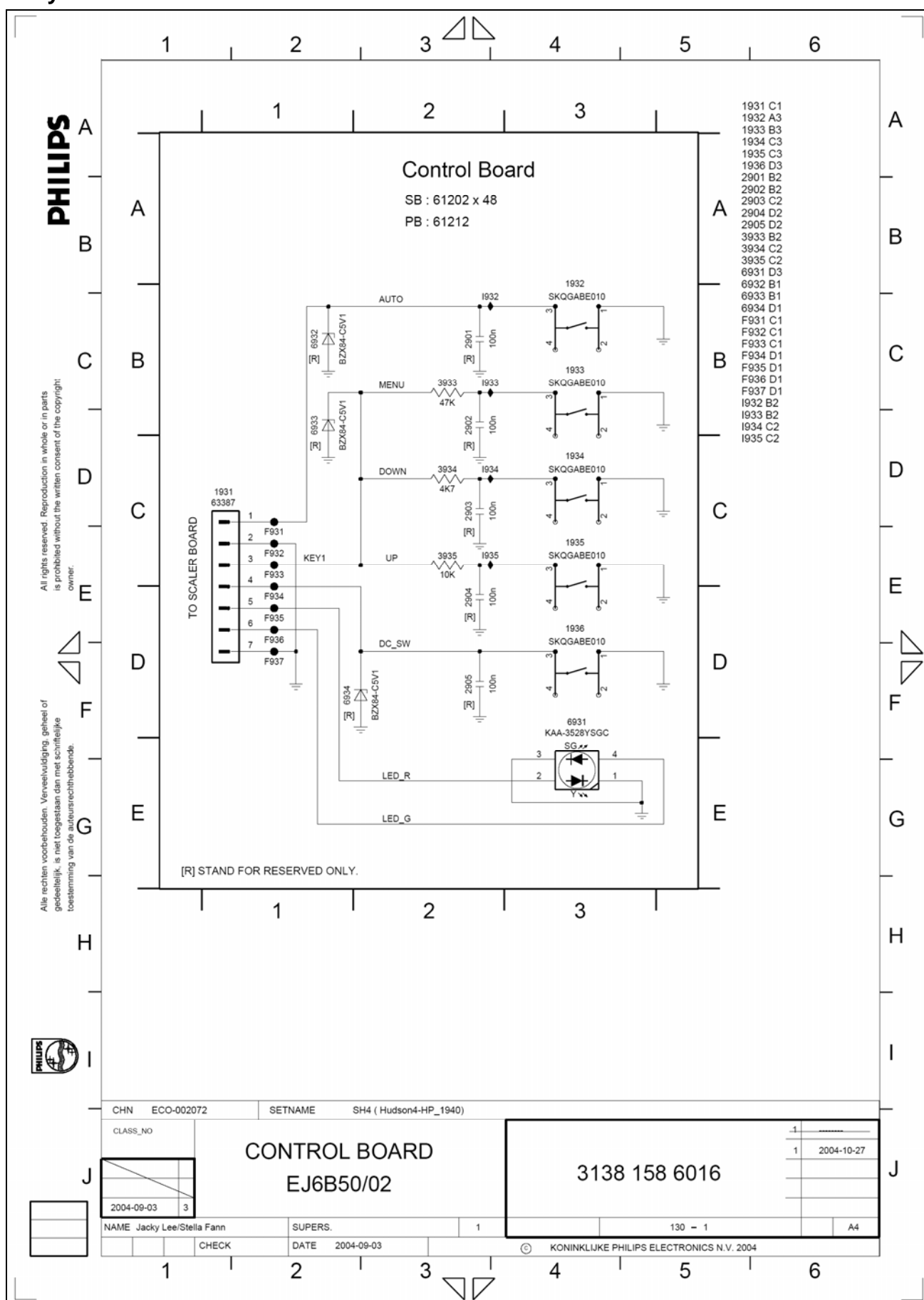
AC/DC Function Block Schematic



Inverter Function Block Schematic



10.3 Key Board



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Sheet 130 please refer 3138 158 61521

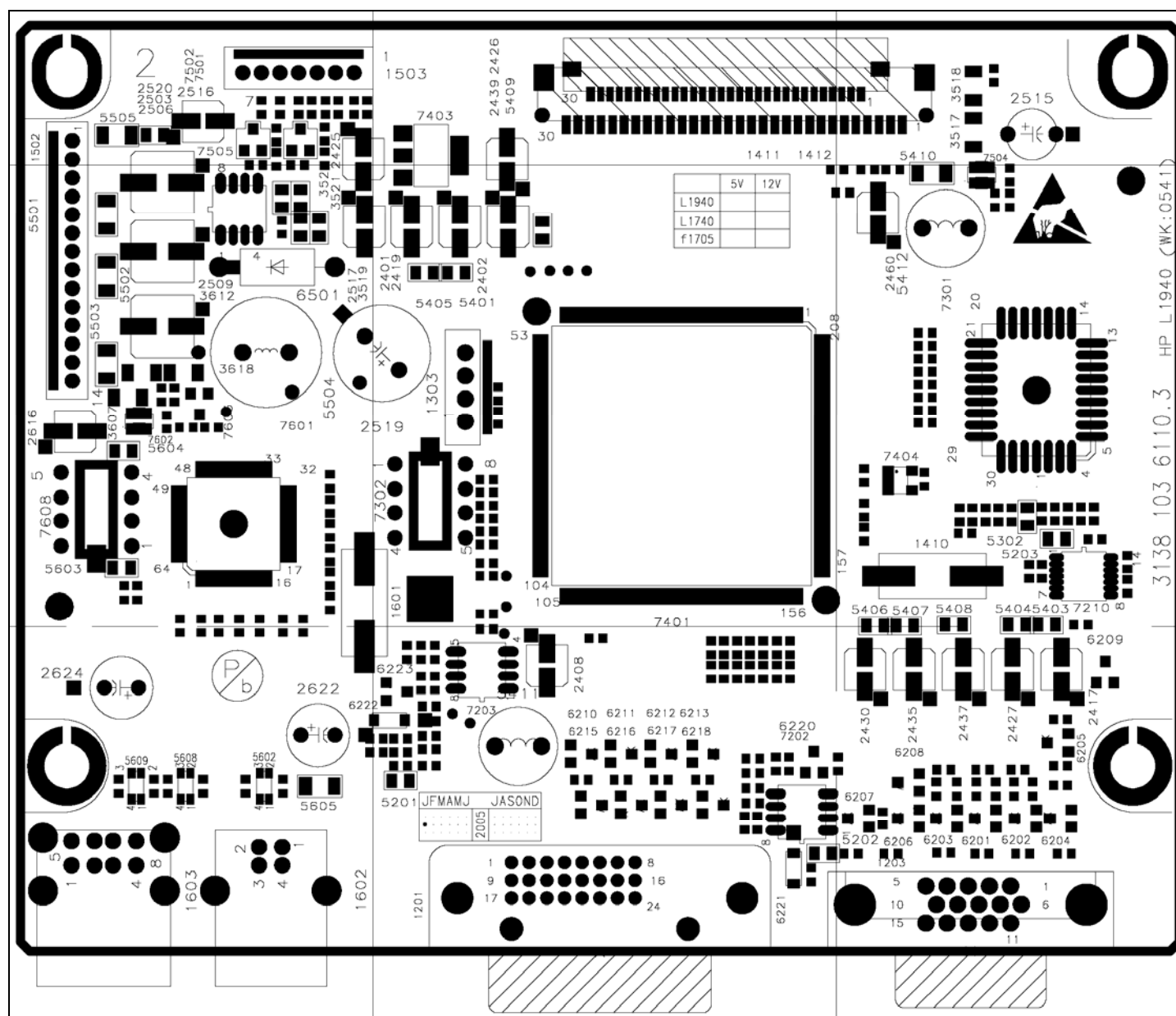
CHN ECO-		SETNAME SH4 (HUDSON4-HPL 1740)	
CLASS_NO		SCALER BOARD(CPT)	
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NAME TM Hsiao		SUPERS. 1	
CHECK		DATE 2004-10-01	
		130 - 1	
		A4	

3138 158 61641	

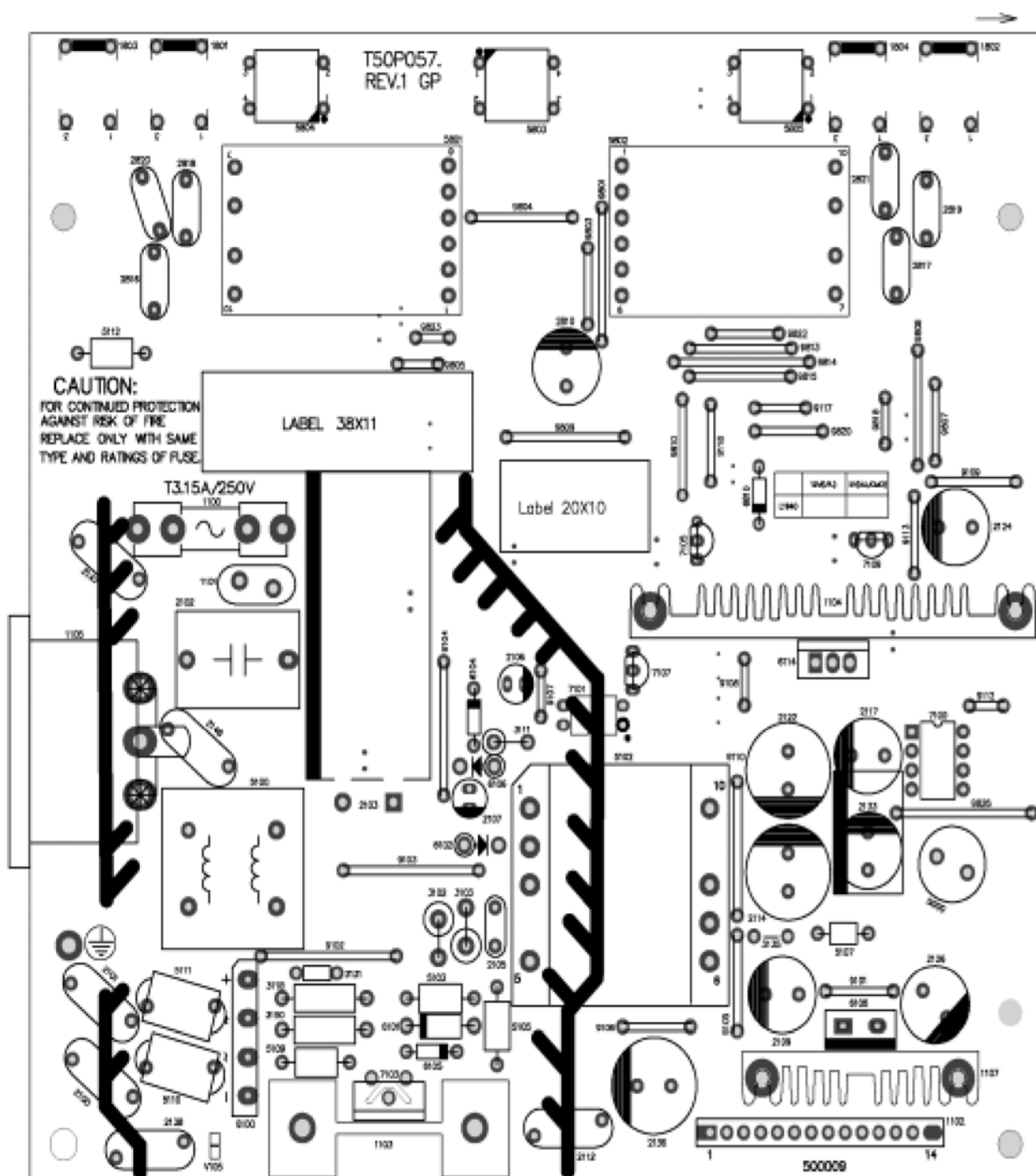
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11. PCB Layout

11.1 Main Board



11.2 Inverter / Power Board





12. Maintainability

Equipments and Tools Requirement

- 1 、 Multi-meter.
- 2 、 Oscilloscope.
- 3 、 Pattern Generator.
- 4 、 DDC Tool with an IBM Compatible Computer.
- 5 、 Alignment Tool.
- 6 、 LCD Color Analyzer.
- 7 、 Service Manual.
- 8 、 User Manual.

13. White-Balance,Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding White-Balance adjustment.

1. How to do the Chroma-7120 MEM .Channel setting

- A. Reference to chroma 7120 user guide
- B. Use “**SC**” key and “**NEXT**” key to modify xyY value and use “**ID**” key to modify the TEXT description Following is the procedure to do white-balance adjust

2. Setting the color temp. You want

A. 9300 color:

9300 color temp. parameter is $x = 283 \pm 20$, $y = 297 \pm 20$, $Y = 180 \text{ cd/m}^2$.

B. 6500K color:

6500K color temp. parameter is $x = 313 \pm 20$, $y = 329 \pm 20$, $Y = 180 \text{ cd/m}^2$

C. sRGB color:

sRGB color temp. parameter is $x = 313 \pm 20$, $y = 329 \pm 20$, $Y = 150 \text{ cd/m}^2$

3. Into factory mode of HP L1940T

[Push “Auto Adjust” and “+ (plus)” and hold them at the same time] + [Press power “Power” button until comes out “windows screen”] => then release all button, then press “Menu” button, wait until the OSD menu with Characters “F” come on the Screen of the monitor.

4. Bias adjustment:

Set the **Contrast**  to 80

Adjust the **Brightness**  to 90.

5. Gain adjustment :

Move cursor to “-F-” and press MENU key

A. Adjust 9300k color-temperature

1. Switch the Chroma-7120 to **9300k channel**.
2. The chroma 7120 will show $x = 283 \pm 20$, $y = 297 \pm 20$, $Y = 180 \text{ cd/m}^2$
3. Switch the chroma-720 to **RGB MODE** (with press “MODE” button to change)
4. Adjust the RED of color **9300K** on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN of color **9300K** on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE of color **9300K** on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

B. Adjust 6500K color-temperature

1. Switch the chroma-7120 to **6500K channel**.

2. The chroma 7120 will show $x = 313 \pm 20$, $y = 329 \pm 20$, $Y = 180 \text{ cd/m}^2$
3. Switch the chroma 7120 I to **RGB MODE** (with press “MODE” button to change)
4. Adjust the RED of color **6500K** on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN of color **6500K** on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE of color **6500K** on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

C. Adjust sRGB color-temperature

1. Switch the chroma-7120 to **sRGB channel**.
2. The chroma 7120 will show $x = 313 \pm 20$, $y = 329 \pm 20$, $Y = 150 \text{ cd/m}^2$
3. Switch the chroma 7120 I to **RGB MODE** (with press “MODE” button to change)
4. Adjust the RED of color **sRGB** on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN of color **sRGB** on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE of color **sRGB** on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

D. Press reset key and Turn the Power-button “off to on” to quit from factory mode.

14. Check List after replacing LCD Main board

Check if white-balance is within the specs after replacing Main board and panel, then re-writing DDC is necessary.

14.1 Check white-balance

The white-balance value for each common color temperature:

9300 °K: $x=283 \pm 20$; $y = 297 \pm 20$;

6500K: $x = 313 \pm 20$; $y = 329 \pm 20$;

sRGB: $x = 313 \pm 20$; $y = 329 \pm 20$;

The color temperature value above must be up to the situation of $x < y$. The value of Y should be confirmed according to different customers. 15" LCD is commonly $180 \pm 20 \text{ cd/cm}^2$ (Center) and 17" LCD is required to be larger than 200 cd/cm^2 (Center). The exact brightness values are confirmed by the checking-regulations of different customers and different models.

14.2 Steps for writing DDC:

Re-programming Analog DDC IC

Step 1: After initialize alignment box, connecting all cables and box as shown in Fig. 10.

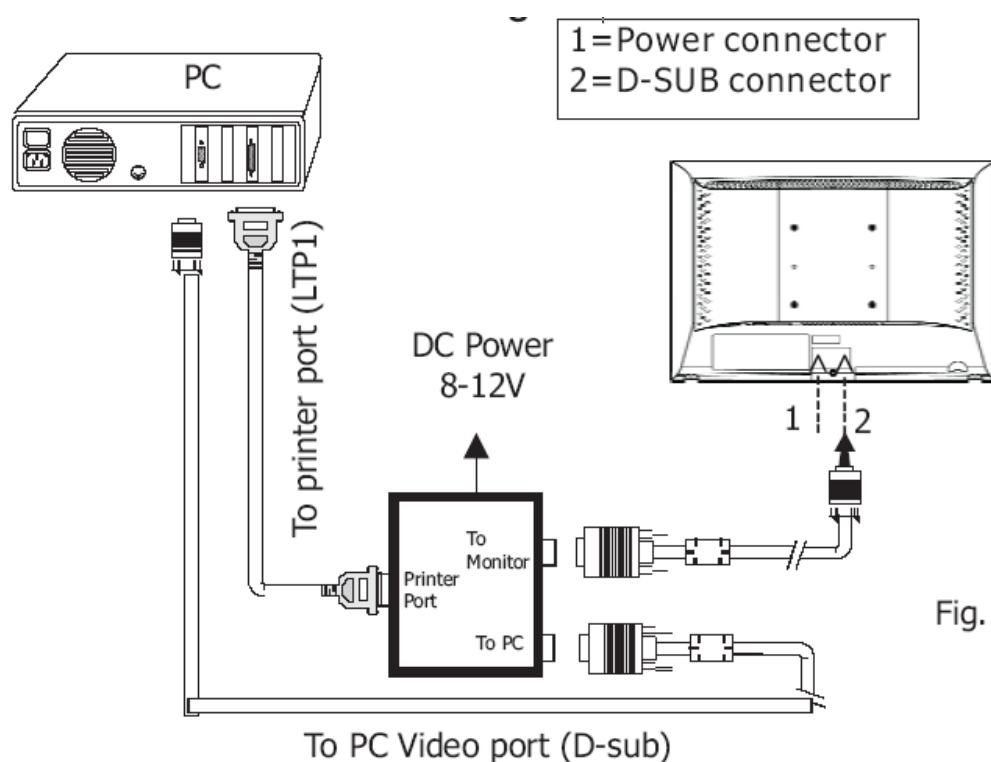



Fig. 10

Step 2: Read DDC data from monitor

1. Click  icon as shown in Fig. 11 from the tool bar to bring up the Channels "Configuration Setup" windows as shown in Fig. 11.

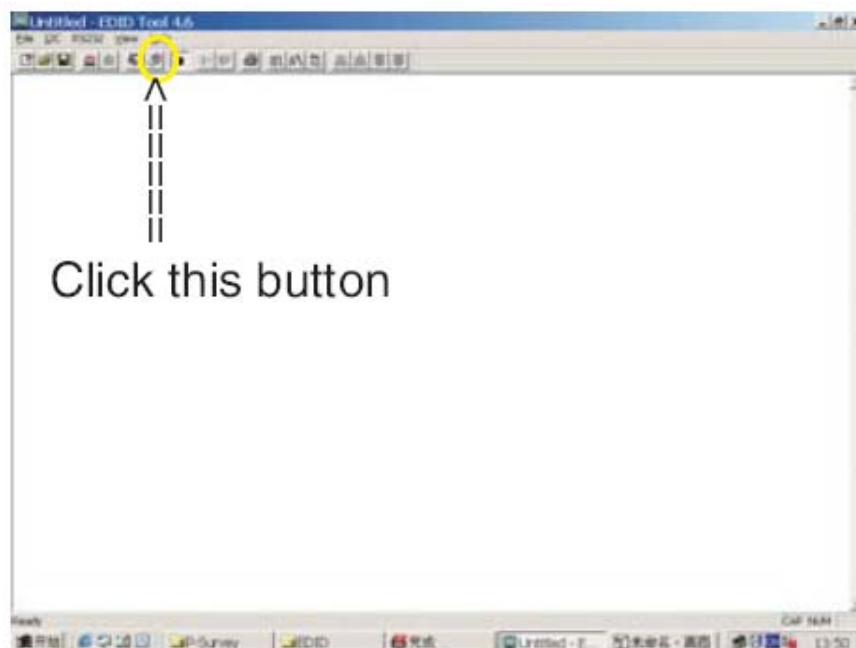


Fig. 11

2. Select the DDC2Bi as the communication channel.

As shown in Fig. 12.

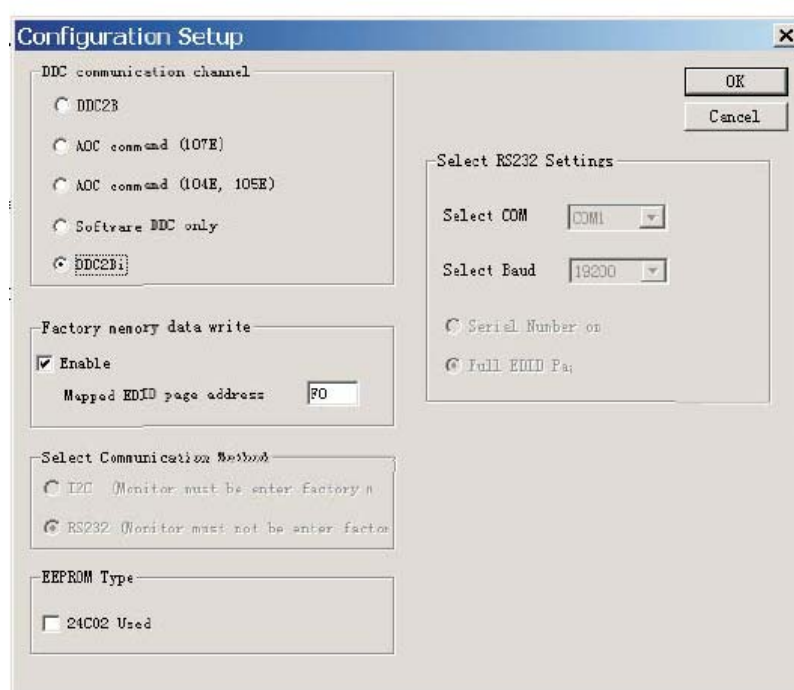


Fig. 12

3. Click OK button to confirm your selection.

4. Click  icon (Read EDID function) to read DDC EDID data from monitor. The EDID codes will display on screen as shown in Fig. 13.

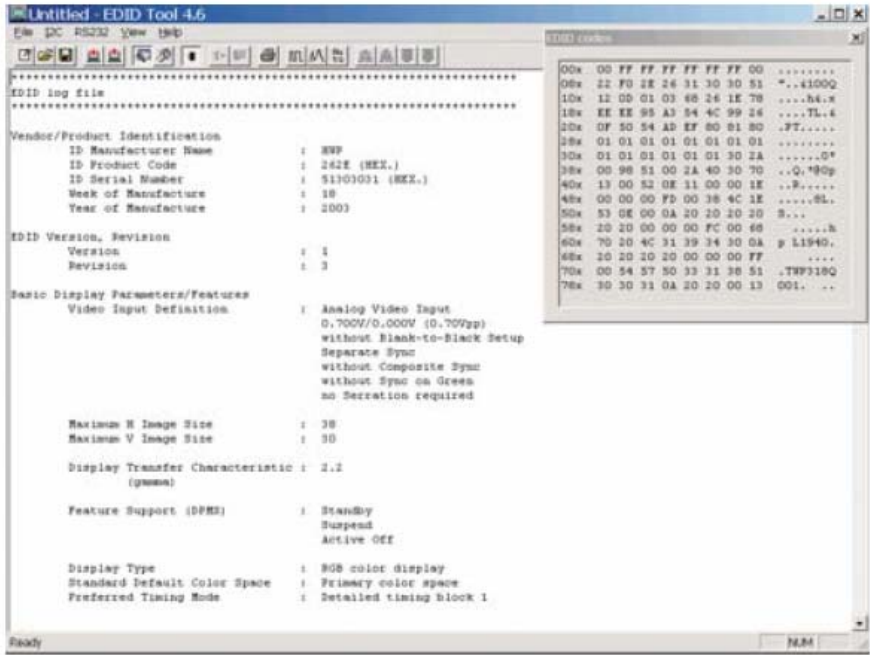


Fig. 13

Step 3: Modify DDC data (verify EDID version, week, year)

Click (new function) icon from the tool bar, bring up Step 1 of 9 as shown in Fig. 14 .
EDID4.6 DDC application provides the function selection and text change (select & fill out)from Step 1 to Step 9.

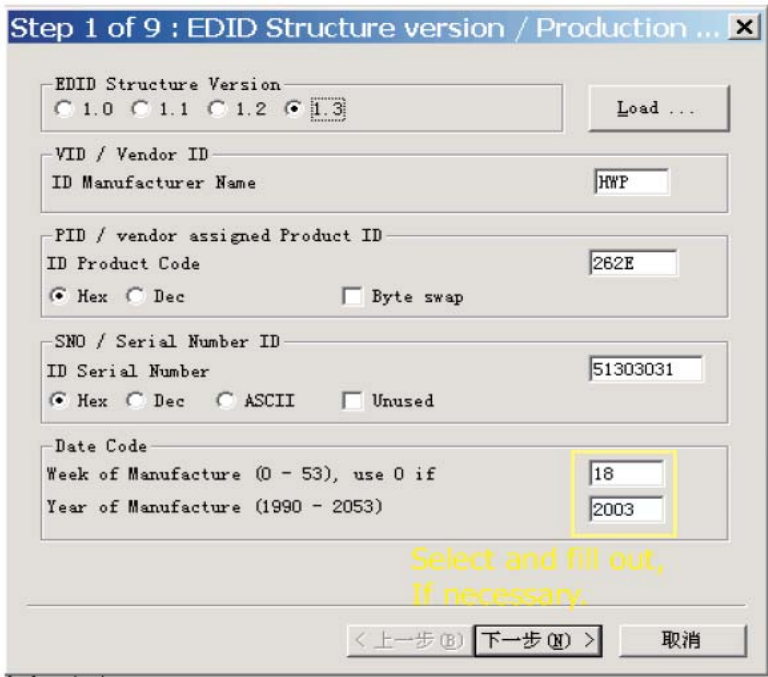


Fig. 14

Step 4: Modify DDC data (Monitor Serial No.)

1. Click Next , bring up Fig. 15.

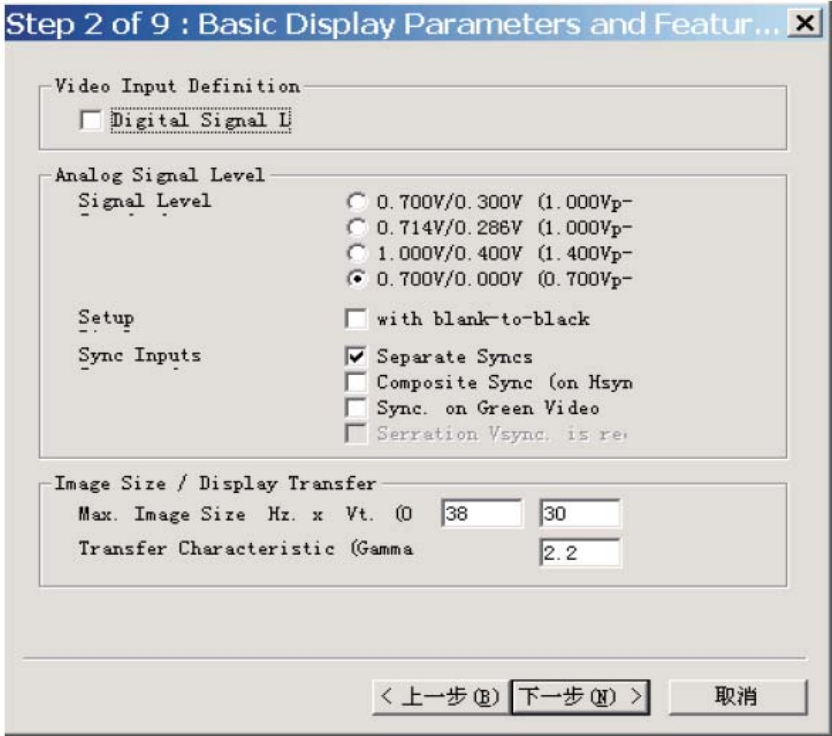


Fig. 15

2. Click Next , bring up Fig.16.

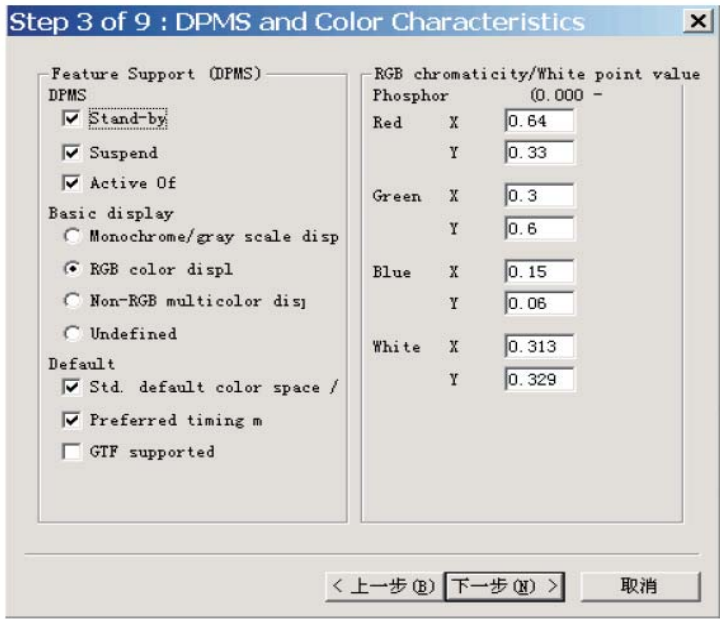


Fig. 16

3. Click Next , bring up Fig.17.

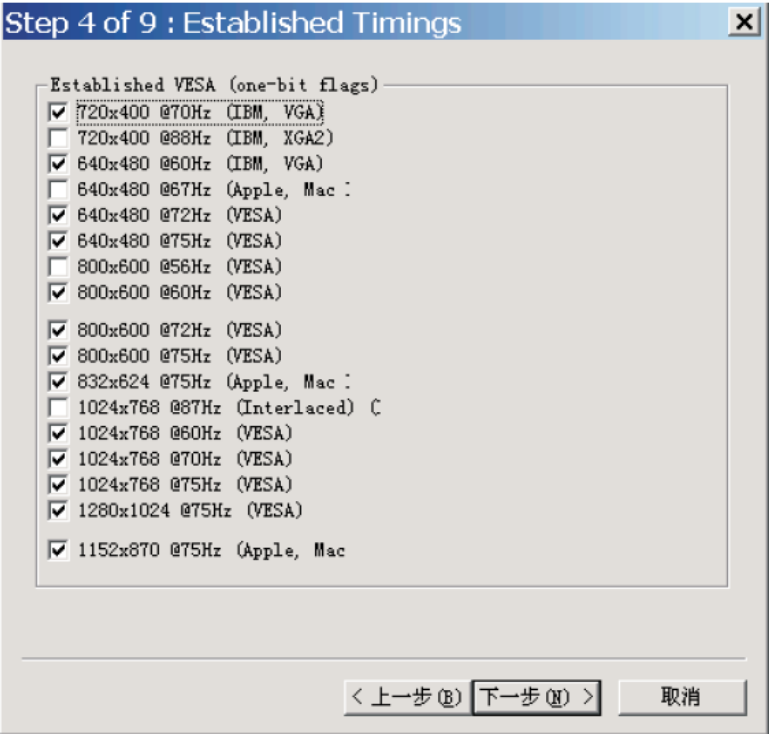


Fig. 17

4. Click Next , bring up Fig.18.

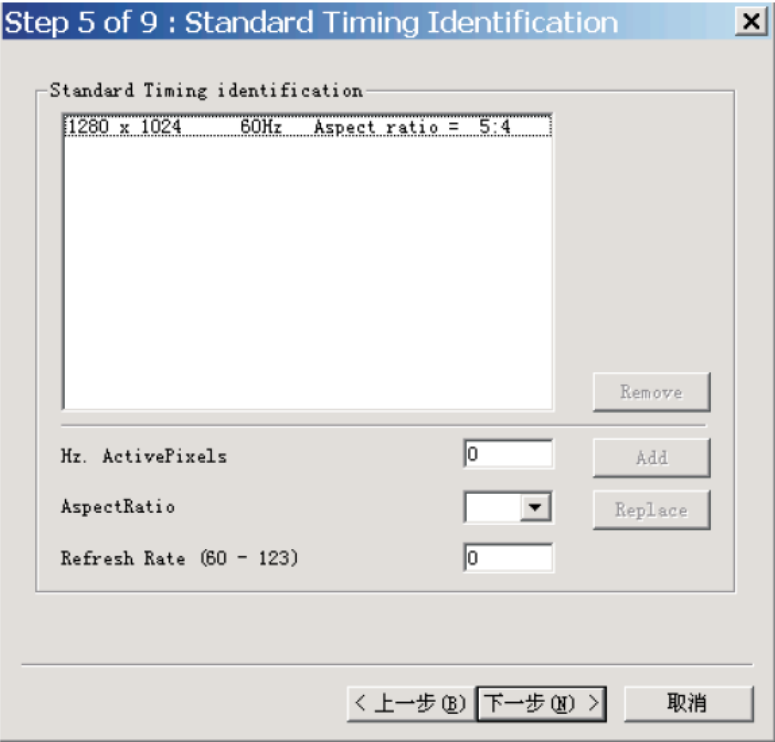


Fig. 18

5. Click Next , bring up Fig.19.

Step 6 of 9 : Detailed timing and Descriptor descr... X

☐ Monitor Descriptor

Pixel Clock	(0 - 655.35)	108
H. Active	(0 - 4095)	1280
H. Blanking	(0 - 4095)	408
V. Active	(0 - 4095)	1024
V. Blanking	(0 - 4095)	42
H. SyncOffset	(0 - 1023)	48
H. SyncPWidth	(0 - 1023)	112
V. SyncOffset	(0 - 63)	1
V. SyncPWidth	(0 - 63)	3
H. ImageSize	(0 - 4095)	338
V. ImageSize	(0 - 4095)	270
H. Border	(0 - 255)	0
V. Border	(0 - 255)	0

Scan Mode
☐ Interlaced / Non-inter

Stereo Mode
☒ No stereo
☐ Field stereo, right im
☐ Field stereo, left ima
☐ 2-way stereo, right im
☐ 2-way stereo, left ima
☐ 4-way interleaved ster
☐ Side-by-Side stereo

Sync. Signal
☐ Analog Composite Sync
☐ Bi-Analog Composite Sy
☐ Digital Composite Sync
☒ Digital Separate Sync
☒ Vsync Positive
☒ Hsync Positive

< 上一步(B) 下一步(N) > 取消

Fig. 19

6. Click Next , bring up Fig. 20.

In this step, please confirm the Descriptor Data Type is Monitor Range Limits, and all the items are same as below.

Step 7 of 9 : Detailed timing and Descriptor descr... X

☒ Monitor Descriptor

Descriptor Data Type Monitor Range Limits

Monitor Range

Min. Vertical Rate	(0 - 255 Hz)	56
Max. Vertical Rate	(0 - 255 Hz)	76
Min. Horizontal	(0 - 255 KHz)	30
Max. Horizontal	(0 - 255 KHz)	83
Max. Supported Pixel Clock	(0 -	140

☐ Secondary GTF timing formula support

< 上一步(B) 下一步(N) > 取消

Fig. 20

7. Click Next , bring up Fig. 21.

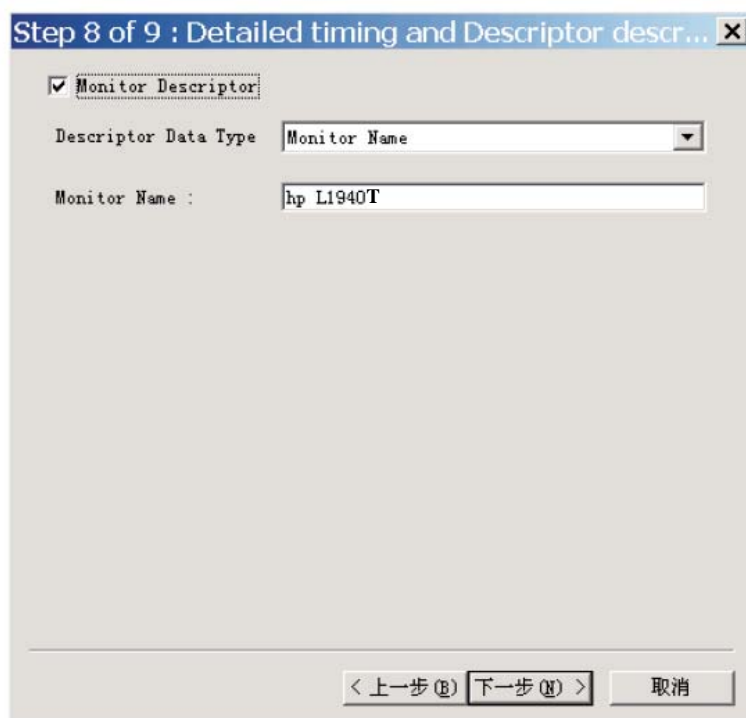


Fig. 21

8. Click Next , bring up Fig. 22.

- Click Finish to exit the Step window.

- Serial number can be filled up at this moment (for example,TWP318Q001).

NOTE: You must modify the Serial NO. In step 9, otherwise the Serial NO. In OSD Couldn't be modified correctly.

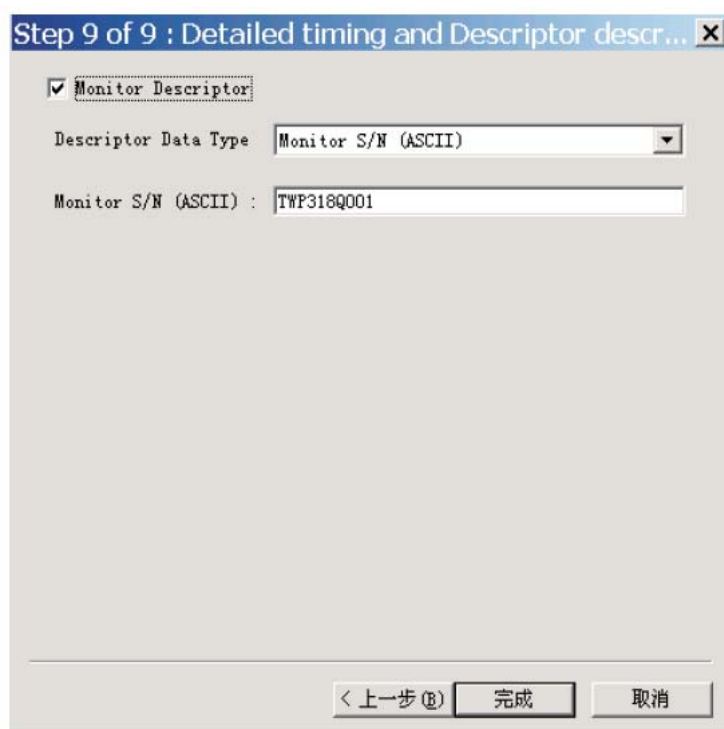


Fig. 22

Step 5: Write DDC data

1. Configuration should be as Fig. 23. And press OK.

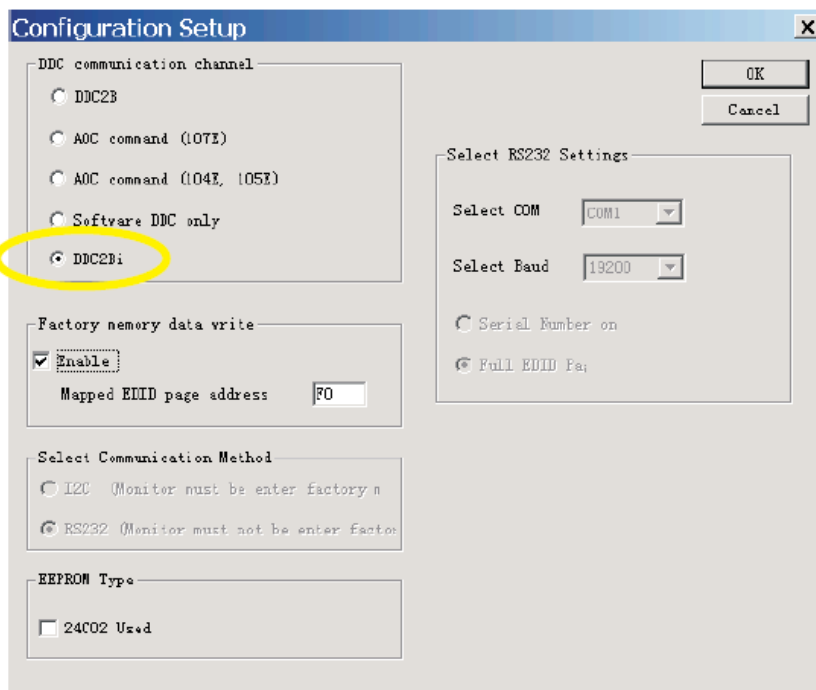


Fig. 23

2. Access Factory Mode

- 1). Turn off monitor.
- 2). [Push "Auto Adjust " and " +(plus)" and hold them at the same time] + [Press power "Power " button until comes out "Windows screen"] => then release all button, then press "Menu" button, wait until the OSD menu with Characters "F" (below OSD menu) come on the Screen of the monitor (see Fig. 24).

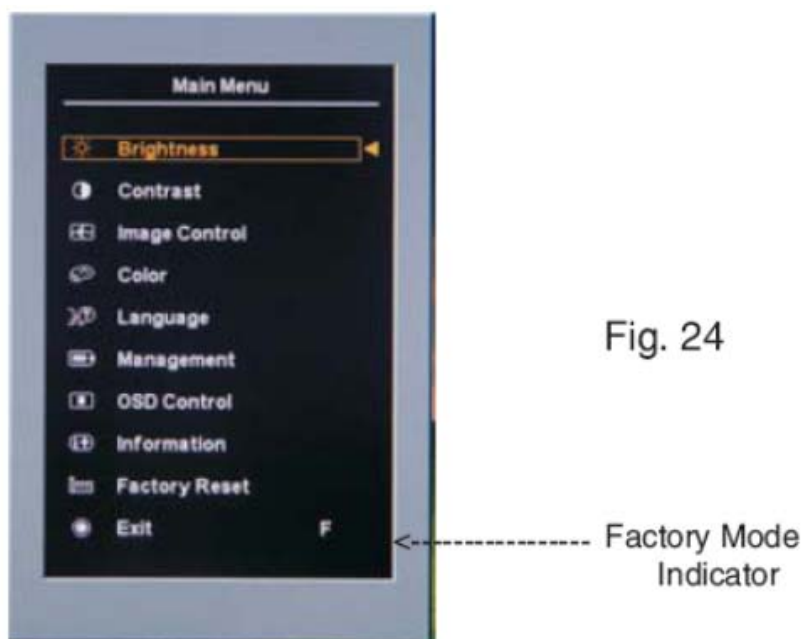



Fig. 24

- 3) Push Menu to exit OSD menu.

- 4). Click  (Write EDID) icon from the tool bar to write DDC data. Then the screen will be black for 5-10 seconds, when the screen recovers ,DDC data will be finished Writing.

Step 6: Save DDC data

Sometimes, you may need to save DDC data as a text file for using in other IC chip. To save DDC data, follow the steps below:



1. Click (Save) icon (or click "file"-> "save as") from the tool bar and give a file name as shown in Fig. 25. The file type is EDID46 file (*.ddc) which can be open in WordPad. By using WordPad, the texts of DDC data & table (128 bytes, hex code) can be modified. If DDC TEXTS & HEX Table are completely correct, it can be saved as .ddc file to re-load it into DDC IC for DDC Data application.

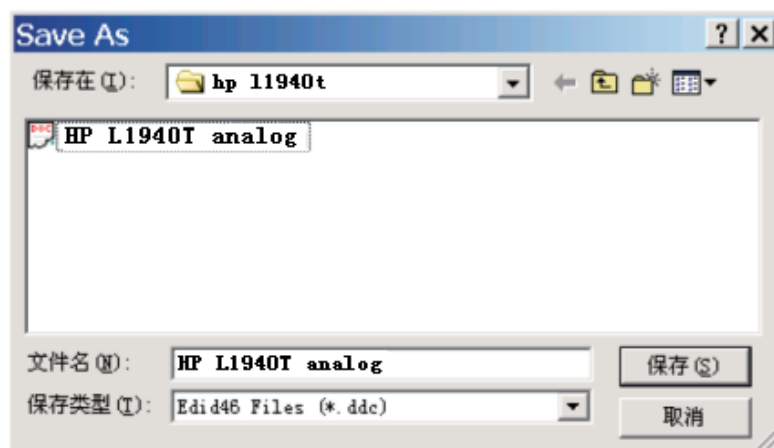


Fig. 25

2. Click Save.

Step 7: Exit DDC program

Pull down the File menu and select Exit as shown in Fig. 26.

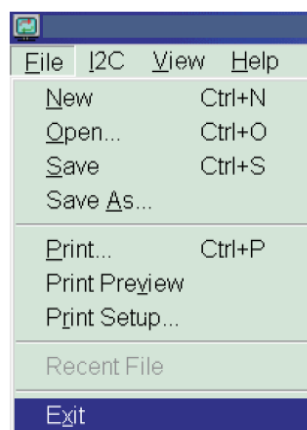


Fig. 26

Step 8: Turn off the monitor, exit the factory mode.

Re-programming Digital DDC IC

Step 1: After initialize alignment box, connecting all cables and box as shown in Fig. 27.

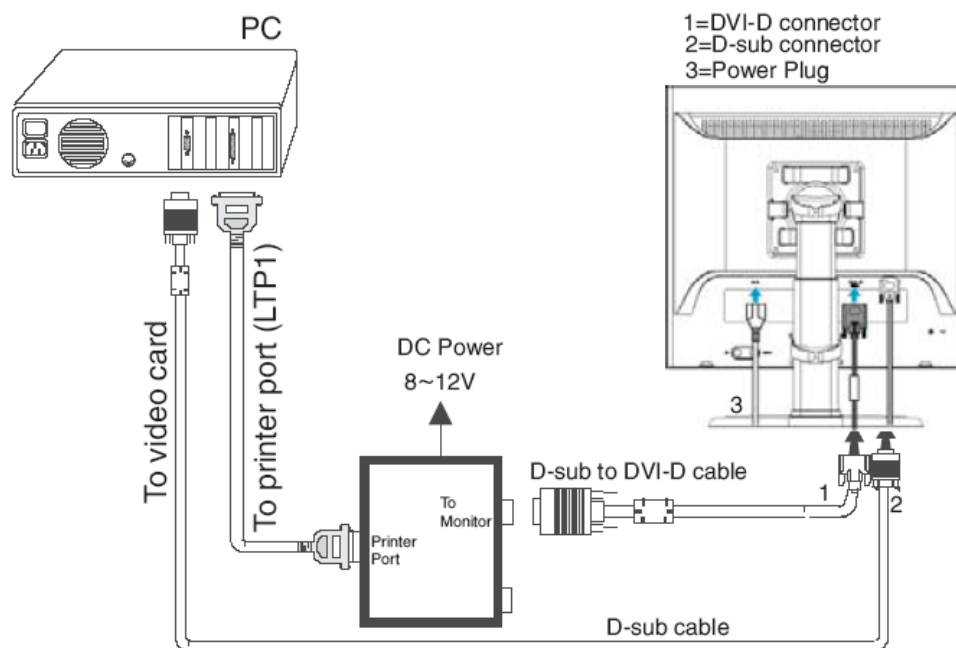


Fig. 27

Step 2: Read DDC data from monitor

1. Click icon as shown in Fig. 11 from the tool bar to bring up the Channels "Configuration Setup" windows as shown in Fig. 28.

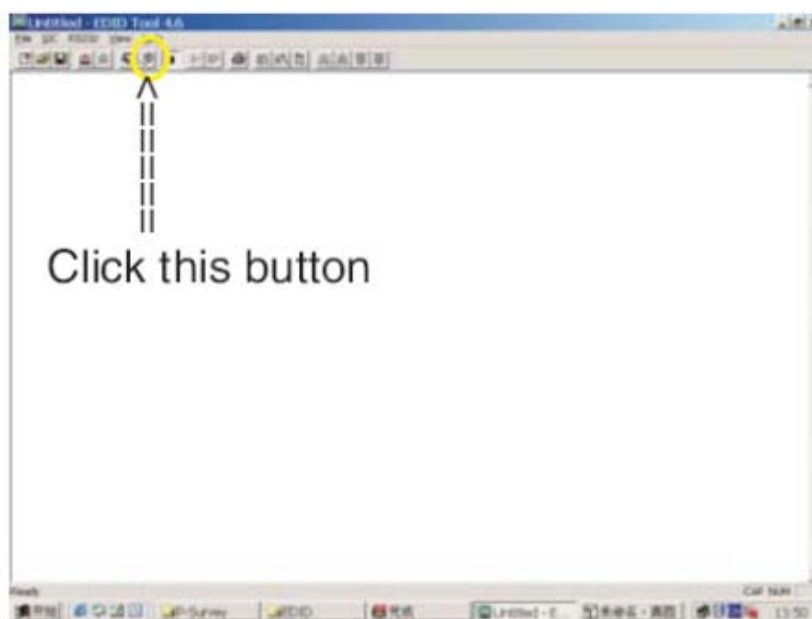


Fig. 28

2. Select the DDC2Bi as the communication channel. As shown in Fig. 29.

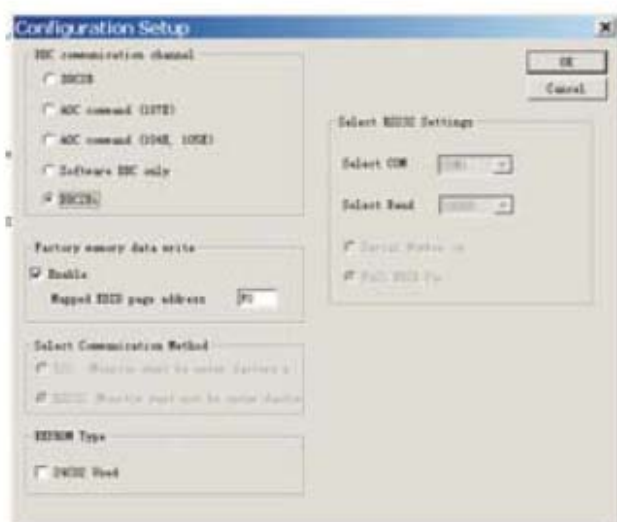



Fig. 29



Fig. 30


3. Click OK button to confirm your selection.



4. Click  icon (Read EDID function) to read DDC EDID data from monitor. The EDID codes will display on screen as shown in Fig. 30.

Step 3: Modify DDC data (verify EDID version, week, year)



Click  (new function) icon from the tool bar, bring up Step 1 of 9 as shown in Fig. 31.

EDID46 DDC application provides the function selection and text change (select & fill out) from Step 1 to Step 9.



Fig. 31



Fig. 32

Step 4: Modify DDC data (Monitor Serial No.)

1. Click Next, bring up Fig. 32.

2. Click Next , bring up Fig. 33. Fig. 33 Fig. 34

3. Click Next , bring up Fig. 34.



Fig. 33

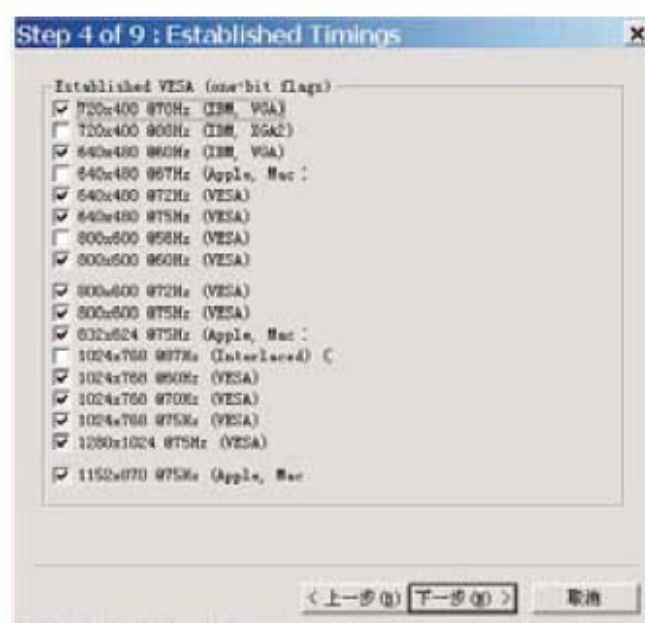


Fig. 34

4. Click Next , bring up Fig. 35.

5. Click Next , bring up Fig. 36.



Fig. 35



Fig. 36

6. Click Next , bring up Fig. 37.

In this step, please confirm the Descriptor Data Type is Monitor Range Limits, and all the items are same as below.

7. Click Next , bring up Fig. 38.

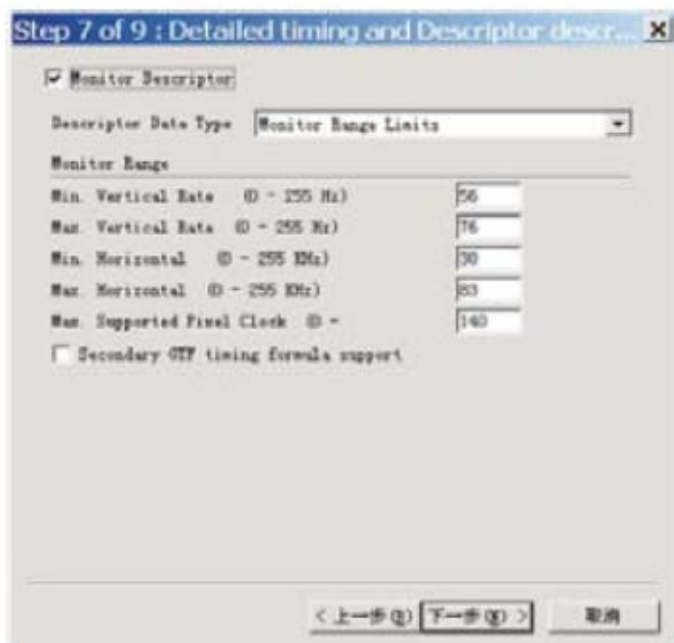


Fig. 37

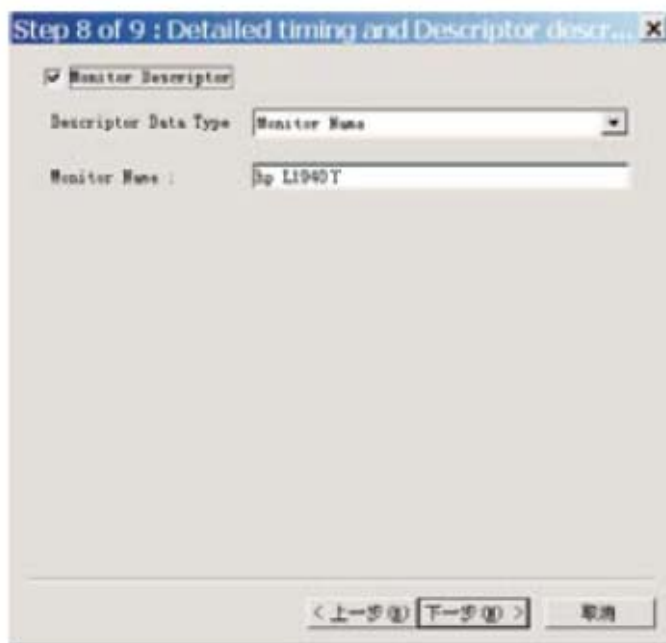


Fig. 38

8. Click Next , bring up Fig. 39.

- Click Finish to exit the Step window.
- Serial number can be filled up at this moment (for example, TWP318Q001).

NOTE: You must modify the Serial NO. In step 9, otherwise the Serial NO. In OSD Couldn't be modified correctly.



Fig. 39

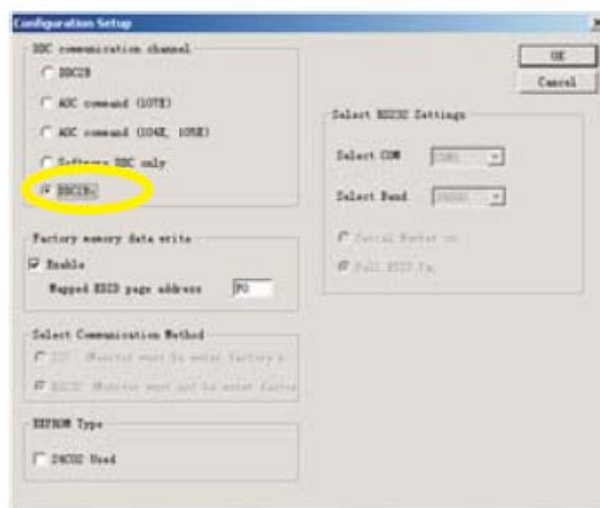


Fig. 40

Step 5: Write DDC data

1. Configuration should be as Fig. 40. And press OK.

2. Access Factory Mode

1). Turn off monitor.

2). [Push "Auto Adjust " and "+(plus) and hold them at the same time] + [Press power "Power " button untill comes out "Windows screen"] => then release all button, then press "Menu" button, wait until the OSD menu with Character "F" (below OSD menu) come on the Screen of the monitor (see Fig. 41).

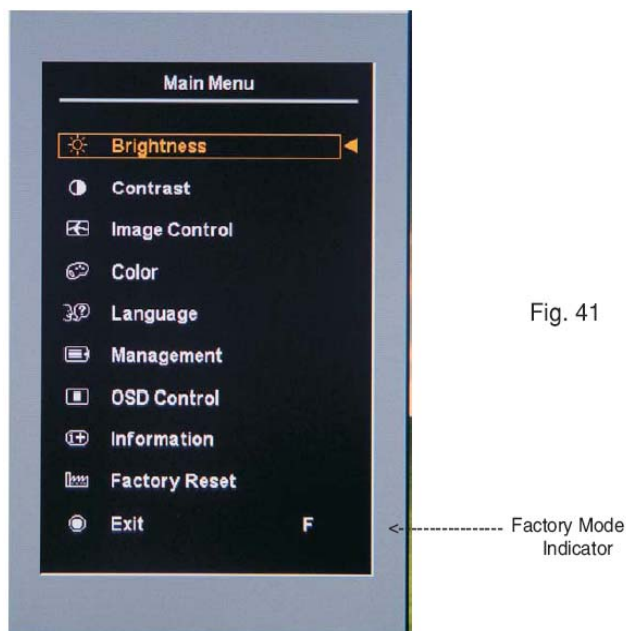



Fig. 41

3) Push Menu to exit OSD menu.

3. Click  (Write EDID) icon from the tool bar to write DDC data. Then the screen will be black for 5-10 seconds, when the screen recovers, DDC data will be finished Writing.

4. Confirm Serial Number in User Mode

- 1) Press the "Power " button to turn off the monitor. Press the button again to turn on the monitor.
- 2) Press the" Menu " button to bring up the OSD main menu.
- 3) Press the " Minus "button to " INFORMATION", press the" Menu " button to confirm your selection.
- 4) Confirm the Serial Number "TWP318Q001" is updated as shown in Fig. 42.



Fig.42

Step 6: Save DDC data

Sometimes, you may need to save DDC data as a text file for using in other IC chip. To save DDC data, follow the steps below:

1. Click (Save) icon (or click "file"-> "save as") from the tool bar and give a file name as shown in Fig. 46.

The file type is EDID46 file (*.ddc) which can be open in WordPad. By using WordPad, the texts of DDC data & table (128 bytes, hex code) can be modified. If DDC TEXTS & HEX Table are completely correct, it can be saved as *.ddc file to re-load it into DDC IC for DDC Data application.

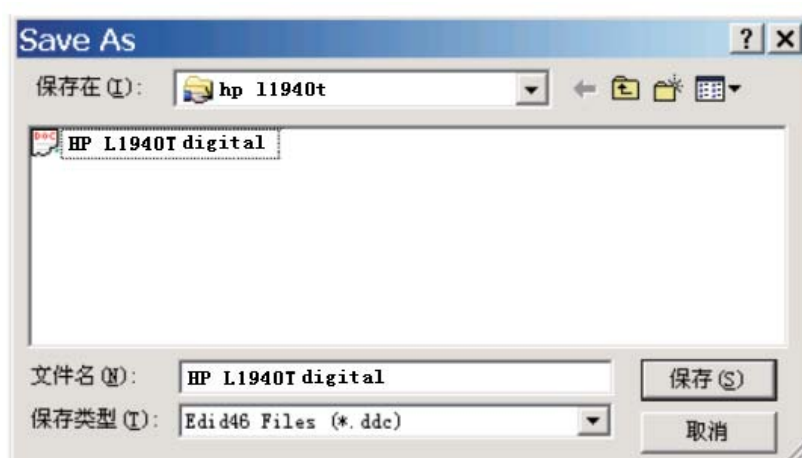


Fig. 43

2. Click Save.

Step 7: Exit DDC program

Pull down the File menu and select Exit as shown in Fig. 44.

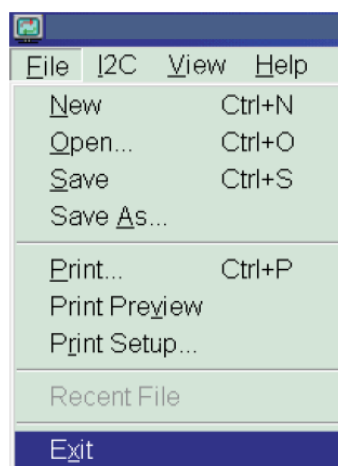


Fig. 44

Step 8: Turn off the monitor, exit the factory mode.

15. EDID Content

Analog

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0:	00	FF	FF	FF	FF	FF	FF	00	22	F0	2E	26	01	01	01	01
16 :	36	10	01	03	68	26	1E	78	EE	EE	95	A3	54	4C	99	26
32 :	0F	50	54	AD	EF	80	81	80	01	01	01	01	01	01	01	01
48 :	01	01	01	01	01	01	30	2A	00	98	51	00	2A	40	30	70
64 :	13	00	52	0E	11	00	00	1E	00	00	00	FF	00	32	31	33
80 :	36	35	34	39	38	37	35	0A	20	20	00	00	00	FD	00	38
96 :	4C	1E	53	0E	00	0A	20	20	20	20	20	20	00	00	00	FC
112:	00	48	50	20	4C	31	39	34	30	54	0A	20	20	20	00	3D

Digital

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0:	00	FF	FF	FF	FF	FF	FF	00	22	F0	2F	26	01	01	01	01
16 :	02	0E	01	03	80	26	1E	78	EE	EE	95	A3	54	4C	99	26
32 :	0F	50	54	AD	EF	80	81	80	01	01	01	01	01	01	01	01
48 :	01	01	01	01	01	01	30	2A	00	98	51	00	2A	40	30	70
64 :	13	00	52	0E	11	00	00	1E	00	00	00	FF	00	43	4E	43
80 :	34	30	32	31	32	33	34	0A	20	20	00	00	00	FD	00	38
96 :	4C	1E	53	0E	00	0A	20	20	20	20	20	20	00	00	00	FC
112:	00	48	50	20	4C	31	39	34	30	54	0A	20	20	20	00	38

16. BOM List

T981KMVDBHHPNP

Location	Part No. for TPV	Description	Quantity	Unit
	007G 7 L151	COMPOUND PALLET	0.025	PCS
92	015G6344 1	AC BRACKET	1.000	PCS
34	023G3178690 7A	HP LOGO 7121-8115	1.000	PCS
	034G6402 EY B	REAR COVER	1.000	PCS
	037G6057 2	HINGE	1.000	PCS
	040G 152509	RECYCLE LABEL	1.000	PCS
	040G 152512	RECYCLE LABEL	1.000	PCS
	040G 58169016A	TCO'03 LABEL	1.000	PCS
	040G 582690 1A	CARTON LABLE	1.000	PCS
	040G 582690 2A	PALLET LABLE	0.050	PCS
	040G19NP690 1B	RATING LABEL	1.000	PCS
	041G160069041A	L1940T FOR EUR	1.000	PCS
	041G7800690A12	RTF CARD	1.000	PCS
	041G7800690A16	QSG FOR EUR	1.000	PCS
	041G7800690B01	SCREEN RESOLUTION	1.000	PCS
451	044G3957 1	CUSHION-R	1.000	PCS
452	044G3957 2	CUSHION-L	1.000	PCS
450	044G3957690 1A	CARTON	1.000	PCS
	044G6002757 1A	PAPER PLATE	0.050	PCS
	044G9003 12	CORNER PAPER	0.050	PCS
	044G9003210	CORNER PAPER	0.100	PCS
148	045G 88609 28	BASE P.E BAG	1.000	PCS
456	045G 88609 29	P.E.BAG(EPE)	1.000	PCS
457	050G 505 2	WRAPPING BAND	1.000	PCS
	052G 1185	MIDDLE TAPE FOR CARTON	70.000	CM
	052G 1186	SMALL TAPE	8.000	CM
94	052G6022 1500	SMALL TAPE	1.000	CM
341	052G6025 11975	INSULATION PLATE	1.000	PCS
302	052G6025 11976	INSULATION PLATE	1.000	PCS
E80	080G L19502 FC	PSU OPENFR IPS 35W(T50P057.02)	1.000	PCS
340	085G6157 1	MAIN SHIELD	1.000	PCS
1159	089G 175507	USB CABLE	1.000	PCS
E095B	089G 718RAADP1	CORD SUB-D 15/1M8/15 D-SUB BK	1.000	PCS
E095B	089G 718WAADP1	CORD SUB-D 15/1M8/SUB-D 15BK	1.000	PCS
	089G179J 30713	FFC 30PIN P1.0	1.000	PCS
E089A	089G404A19N LS	POWER CORD	1.000	PCS

8161	095G8P14 7505	CBLE-267 7/330/7-267 AWG28	1.000	PCS
8161	095G8P14 7505	CBLE-267 7/330/7-267 AWG28	1.000	PCS
	0M1G 130 4225	SCREW	4.000	PCS
100	0M1G1340 10 47	SCREW M4X10 BLK	4.000	PCS
	0M1G1430 5128	SCREW (FOR SHIELD)	1.000	PCS
97	0M1G1430 5128	SCREW (FOR SHIELD)	4.000	PCS
95	0M1G1640 8120	SCREW PHM4-0.7X8	1.000	PCS
	0M1G1730 6120	SCREW	4.000	PCS
99	0Q1G 130 8128	SCREW	2.000	PCS
96	0Q1G1130 6128	TAPPING SCREW WITH WASHER	3.000	PCS
	705G980KF34007	BEZEL ASS'Y	1.000	PCS
	705G980KM34004	MAIN FRAME ASS'Y	1.000	PCS
E750L	750GLM90E5A11Z	PANEL LCD 19" E5-L05 C1 D CMO	1.000	PCS
	CBPC980KMHPP	CONVERSION BOARD	1.000	PCS
	KEPC780HP1P	KEY BOARD	1.000	PCS
E80	PWPC1942LGH5P	POWER BOARD	1.000	PCS
	0Q1G 330 8120	SCREW 3X8mm	2.000	PCS
	705G980KF34007	BEZEL ASS'Y	0.000	
	033G6429 PM B	CONTROL BUTTON	1.000	PCS
	033G6430 1 C	LENS-POWER	1.000	PCS
	034G6401AFH B	BEZEL	1.000	PCS
	705G980KM34004	MAIN FRAME ASS'Y	0.000	
	015G6343 1	MAIN FRAME-LPL	1.000	PCS
	052G6025 11981	MYLAR	1.000	PCS
	CBPC980KMHPP	CONVERSION BOARD	0.000	
1503	033G3802 7	WAFER EH 7	1.000	PCS
1502	033G3802 14	14P/2.0MM	1.000	PCS
	040G 457624 1B	LABEL-CPU	1.000	PCS
	040G 45762412B	CBPC LABEL	1.000	PCS
7302	056G11332PH	IC M24C16-WBN6 (ST00)L	1.000	PCS
7608	056G1133521	IC AT93C46-10PU-2.7 ATMEL	1.000	PCS
2622	067G 305101 4P	ELCAP KM 25V S 100U PM20 B	1.000	PCS
2624	067G 305101 4P	ELCAP KM 25V S 100U PM20 B	1.000	PCS
2622	067G 305101 4X	ELCAP RGA 25V S 100U PM20 B	1.000	PCS
2624	067G 305101 4X	ELCAP RGA 25V S 100U PM20 B	1.000	PCS
2515	067G 305470 4P	ELCAP KM 25V S 47U PM20 B	1.000	PCS
2515	067G 305470 4X	ELCAP RGA 25V S 47U PM20 B	1.000	PCS
2519	067G215L471 4R	LOW E.S.R 470UF +/-20% 25V	1.000	PCS
5504	073G 253518 LS	COI CHOKE 35UH 82M OHM DR10X8	1.000	PCS
5411	073G 25833010T	IND FXD TSL0808 S 33U PM10 B	1.000	PCS
5504	073L 253518 HJ	COI CHOKE 35UH 82M OHM DR10X8	1.000	PCS

1603	088G 350 1 TN	USB CONN	1.000	PCS
1602	088G 351 2B CL	USB CONN	1.000	PCS
1602	088G 351 2B TN	USB CONN	1.000	PCS
1203	088G 35315F H	D-SUB 15PIN	1.000	PCS
1203	088G 35315F HJ	SOC SUBD H 15P F	1.000	PCS
1203	088G 35315F HJ	SOC SUBD H 15P F	1.000	PCS
1201	088G 35424F H	DV1 CONNECTOR 24PIN	1.000	PCS
1201	088G 35424F SM	SOC DVI H 24P F 1.91DVI-D Y	1.000	PCS
1201	088G 35424FHCJ	DVI 24PIN	1.000	PCS
6501	093G 521ZJ26T	SB240	1.000	PCS
6501	093G 523DI26T	DIO REC SB240-E3 A(VISH)B	1.000	PCS
	AIC980KMHVPP	MAIN BOARD	1.000	PCS
	KEPC780HP1P	KEY BOARD	0.000	
1931	033G3802 7	WAFER EH 7	1.000	PCS
	AIK780HP1SMTP	KEY BOARD FOR SMT	1.000	PCS
	AIC980KMHVPP	MAIN BOARD	0.000	
1412	033G801930L FP	CON H 30P F 1.00 SM FFC 0.3R	1.000	PCS
7403	056G 1331PH	IC SM LD1117AS18(ST00)R	1.000	PCS
7505	056G 158805	IC L5972D013TR S08	1.000	PCS
7601	056G 545500	USB HUB CONTROLLER	1.000	PCS
7401	056G 562 70	GM5321 QFP-208	1.000	PCS
7403	056G 563 27	AIC1117-18PY	1.000	PCS
7202	056G1133 20	AT24C02N-10SU-2.7	1.000	PCS
7203	056G1133 20	AT24C02N-10SU-2.7	1.000	PCS
7202	056G1133 34	M24C02-WMN6TP	1.000	PCS
7203	056G1133 34	M24C02-WMN6TP	1.000	PCS
7301	056G1133519	IC AT49BV002ANT-70JU ATMEL	1.000	PCS
7210	056G4LCX 14 PH	IC 74LVC14APW PHILIPS	1.000	PCS
7210	056G4LCX 14 ST	IC SM 74LCX14T	1.000	PCS
7501	057G 420519 T	TRA SIG SM BC857CG (ONSE) R	1.000	PCS
7502	057G 420519 T	TRA SIG SM BC857CG (ONSE) R	1.000	PCS
7503	057G 760 8 T	KRC102M-ATP	1.000	PCS
7503	057G 7601PH	TRA SIG SM MUN2211J(ONSE)R	1.000	PCS
7504	057G 7631PH	FET POW SM SI5441DC(VISH)R	1.000	PCS
3620	061G 56075 WT	PTC KMC 5S075R001-0.75MA	1.000	PCS
3622	061G 56075 WT	PTC KMC 5S075R001-0.75MA	1.000	PCS
3651	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3652	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3653	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3650	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3635	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS

3634	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3614	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3606	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3605	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3528	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3527	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3514	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3236	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3234	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3232	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000	PCS
3243	061L0603100	CHIP 10 OHM 1/10W	1.000	PCS
3241	061L0603100	CHIP 10 OHM 1/10W	1.000	PCS
3223	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3224	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3225	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3226	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3308	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3309	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3340	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3401	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3402	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3505	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3506	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3507	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3206	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3207	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3210	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3211	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3212	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3216	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3217	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3218	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3219	061L0603101	CHIPR 100 OHM +5% 1/16W	1.000	PCS
3306	061L0603103	CHIPR 10K OHM +5% 1/16W	1.000	PCS
3307	061L0603103	CHIPR 10K OHM +5% 1/16W	1.000	PCS
3310	061L0603103	CHIPR 10K OHM +5% 1/16W	1.000	PCS
3333	061L0603103	CHIPR 10K OHM +5% 1/16W	1.000	PCS
3338	061L0603103	CHIPR 10K OHM +5% 1/16W	1.000	PCS
3339	061L0603103	CHIPR 10K OHM +5% 1/16W	1.000	PCS
3503	061L0603103	CHIPR 10K OHM +5% 1/16W	1.000	PCS
3511	061L0603103	CHIPR 10K OHM +5% 1/16W	1.000	PCS

3512	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3522	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3523	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3617	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3608	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3524	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3202	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3203	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3204	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3221	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3222	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3230	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3242	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3246	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3247	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3301	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3302	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3611	061L0603104	RST SM 0603 RC0603 100K PM5 R	1.000	PCS
3516	061L0603104	RST SM 0603 RC0603 100K PM5 R	1.000	PCS
3515	061L0603104	RST SM 0603 RC0603 100K PM5 R	1.000	PCS
3209	061L0603104	RST SM 0603 RC0603 100K PM5 R	1.000	PCS
3229	061L0603104	RST SM 0603 RC0603 100K PM5 R	1.000	PCS
3615	061L0603105	RST SM 0603 RC0603 1M PM5 R	1.000	PCS
3621	061L0603105	RST SM 0603 RC0603 1M PM5 R	1.000	PCS
3623	061L0603105	RST SM 0603 RC0603 1M PM5 R	1.000	PCS
3406	061L0603121	CHIPR 120 OHM 1/10W	1.000	PCS
3405	061L0603121	CHIPR 120 OHM 1/10W	1.000	PCS
3404	061L0603121	CHIPR 120 OHM 1/10W	1.000	PCS
3610	061L0603152	CHIPR 1.5KOHM+-5% 1/16W	1.000	PCS
3657	061L0603153	CHIPR 15KOHM+-5% 1/10W	1.000	PCS
3656	061L0603153	CHIPR 15KOHM+-5% 1/10W	1.000	PCS
3655	061L0603153	CHIPR 15KOHM+-5% 1/10W	1.000	PCS
3654	061L0603153	CHIPR 15KOHM+-5% 1/10W	1.000	PCS
3509	061L0603221	CHIPR 220 OHM+-5% 1/16W	1.000	PCS
3510	061L0603221	CHIPR 220 OHM+-5% 1/16W	1.000	PCS
3227	061L0603222	CHIPR 2.2K OHM+-5% 1/16W	1.000	PCS
3228	061L0603222	CHIPR 2.2K OHM+-5% 1/16W	1.000	PCS
3408	061L0603249 0F	CHIP 249OHM 1/16W 1%	1.000	PCS
3645	061L0603330 9F	rst sm 0603 rc22h 33r pm1 r	1.000	PCS
3646	061L0603330 9F	rst sm 0603 rc22h 33r pm1 r	1.000	PCS
3649	061L0603330 9F	rst sm 0603 rc22h 33r pm1 r	1.000	PCS

3642	061L0603330 9F	rst sm 0603 rc22h 33r pm1 r	1.000	PCS
3633	061L0603330 9F	rst sm 0603 rc22h 33r pm1 r	1.000	PCS
3630	061L0603330 9F	rst sm 0603 rc22h 33r pm1 r	1.000	PCS
3502	061L0603470	CHIPR 47 OHM +-5% 1/16W	1.000	PCS
3501	061L0603470	CHIPR 47 OHM +-5% 1/16W	1.000	PCS
3413	061L0603470	CHIPR 47 OHM +-5% 1/16W	1.000	PCS
3409	061L0603470	CHIPR 47 OHM +-5% 1/16W	1.000	PCS
3245	061L0603470	CHIPR 47 OHM +-5% 1/16W	1.000	PCS
3244	061L0603470	CHIPR 47 OHM +-5% 1/16W	1.000	PCS
3616	061L0603473	RST SM 0603 RC0603 47K PM5 R	1.000	PCS
3613	061L0603680 0F	RST SM 0603 RC22H 680R PM1 R	1.000	PCS
3233	061L0603750 9F	75OHM 1% 1/10W	1.000	PCS
3235	061L0603750 9F	75OHM 1% 1/10W	1.000	PCS
3237	061L0603750 9F	75OHM 1% 1/10W	1.000	PCS
3520	061L0805180 1F	RST SM 005 RC12H 1K8 PM1 R	1.000	PCS
3519	061L0805472	CHIRP 4.7K OHM +-5% 1/10W	1.000	PCS
3521	061L0805560 1F	RST SM 0805 RC12H 5K6 PM1 R	1.000	PCS
3618	061L1206000	CHIPR 0 OHM +-5% 1/8W	1.000	PCS
3607	061L1206000	CHIPR 0 OHM +-5% 1/8W	1.000	PCS
3517	061L1206000	CHIPR 0 OHM +-5% 1/8W	1.000	PCS
2455	065G0603103 32	0.01UF +-10% 50V X7R	1.000	PCS
2454	065G0603103 32	0.01UF +-10% 50V X7R	1.000	PCS
2453	065G0603103 32	0.01UF +-10% 50V X7R	1.000	PCS
2452	065G0603103 32	0.01UF +-10% 50V X7R	1.000	PCS
2229	065G0603103 32	0.01UF +-10% 50V X7R	1.000	PCS
2227	065G0603103 32	0.01UF +-10% 50V X7R	1.000	PCS
2225	065G0603103 32	0.01UF +-10% 50V X7R	1.000	PCS
2511	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2513	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2521	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2510	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2508	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2507	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2505	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2504	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2461	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2446	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2445	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2444	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2443	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2442	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS

2202	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2201	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2433	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2432	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2431	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2428	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2424	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2423	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2422	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2421	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2420	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2409	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2410	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2411	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2412	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2413	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2414	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2415	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2416	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2418	065G0603104 12	CER2 0603 X7R 16V 100N PM10 R	1.000	PCS
2602	065G0603105 A7	1UF,10V,Y5V, Z	1.000	PCS
2601	065G0603105 A7	1UF,10V,Y5V, Z	1.000	PCS
2621	065G0603180 31	CAP CC 18PF 25V J NPO 0603	1.000	PCS
2620	065G0603180 31	CAP CC 18PF 25V J NPO 0603	1.000	PCS
2219	065G0603221 31	CER1 0603 NP0 50V 220P PM5 R	1.000	PCS
2518	065G0603221 31	CER1 0603 NP0 50V 220P PM5 R	1.000	PCS
2218	065G0603330 31	CER1 0603 NP0 50V 33P PM5 R	1.000	PCS
2450	065G0603479 31	CER1 0603 NP0 50V 4P7 PM0P25 R	1.000	PCS
2451	065G0603479 31	CER1 0603 NP0 50V 4P7 PM0P25 R	1.000	PCS
2514	065G0603683 12	CHIP 0.068UF 16V X7R	1.000	PCS
2502	065G0805104 22	0.1UF +-10% 25V X7R 080	1.000	PCS
2501	065G0805104 22	0.1UF +-10% 25V X7R 080	1.000	PCS
2517	065G0805223 32	CHIP 0.022UF 50V X7R 0805	1.000	PCS
2627	065G1206106 A7	CER2 1206 Y5V 10V 10U P8020 R	1.000	PCS
2427	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2427	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2427	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2430	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2430	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2430	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2435	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS

2435	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2435	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2437	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2437	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2437	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2439	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2616	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2616	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2616	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2401	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2401	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2401	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2402	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2408	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2408	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2408	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2426	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2425	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2419	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2417	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2417	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2417	067G 312100 3T	SMD 10uf +-20% 16V	1.000	PCS
2426	067G311F100 3T	10UF 16V 105 PANASONICV TYPE H	1.000	PCS
2439	067G311F100 3T	10UF 16V 105 PANASONICV TYPE H	1.000	PCS
2439	067G311F100 3T	10UF 16V 105 PANASONICV TYPE H	1.000	PCS
2426	067G311F100 3T	10UF 16V 105 PANASONICV TYPE H	1.000	PCS
2425	067G311F100 3T	10UF 16V 105 PANASONICV TYPE H	1.000	PCS
2425	067G311F100 3T	10UF 16V 105 PANASONICV TYPE H	1.000	PCS
2419	067G311F100 3T	10UF 16V 105 PANASONICV TYPE H	1.000	PCS
2402	067G311F100 3T	10UF 16V 105 PANASONICV TYPE H	1.000	PCS
2402	067G311F100 3T	10UF 16V 105 PANASONICV TYPE H	1.000	PCS
2516	067G311F100 4T	ELCAP SM HV 25V 10U PM20 R	1.000	PCS
2516	067G311F100 4T	ELCAP SM HV 25V 10U PM20 R	1.000	PCS
2460	067G311F100 4T	ELCAP SM HV 25V 10U PM20 R	1.000	PCS
2460	067G311F100 4T	ELCAP SM HV 25V 10U PM20 R	1.000	PCS
2503	067G311F470 4T	ELCAP SM RVS 25V 47U PM20 R	1.000	PCS
2503	067G311F470 4T	ELCAP SM RVS 25V 47U PM20 R	1.000	PCS
2506	067G311F470 4T	ELCAP SM RVS 25V 47U PM20 R	1.000	PCS
2506	067G311F470 4T	ELCAP SM RVS 25V 47U PM20 R	1.000	PCS
2509	067G311F470 4T	ELCAP SM RVS 25V 47U PM20 R	1.000	PCS
2509	067G311F470 4T	ELCAP SM RVS 25V 47U PM20 R	1.000	PCS

5605	071GP57K101 TA	IND FXD 1206 EMI 100MHZ 100R R	1.000	PCS
5606	071GP57K101 TA	IND FXD 1206 EMI 100MHZ 100R R	1.000	PCS
5607	071GP57K101 TA	IND FXD 1206 EMI 100MHZ 100R R	1.000	PCS
5601	071GP57K101 TA	IND FXD 1206 EMI 100MHZ 100R R	1.000	PCS
5503	071GP57K101 TA	IND FXD 1206 EMI 100MHZ 100R R	1.000	PCS
5502	071GP57K101 TA	IND FXD 1206 EMI 100MHZ 100R R	1.000	PCS
5501	071GP57K101 TA	IND FXD 1206 EMI 100MHZ 100R R	1.000	PCS
5410	071GP57K101 TA	IND FXD 1206 EMI 100MHZ 100R R	1.000	PCS
5603	071L 56121 TA	0805 120 OHM 3A	1.000	PCS
5604	071L 56121 TA	0805 120 OHM 3A	1.000	PCS
5409	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5408	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5407	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5406	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5405	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5404	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5403	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5401	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5302	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5203	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5202	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5201	071L 56V301 TA	BEAD 0805 300OHM	1.000	PCS
5607	071LP57G800 FT	TI321611G800-SMD	1.000	PCS
5606	071LP57G800 FT	TI321611G800-SMD	1.000	PCS
5605	071LP57G800 FT	TI321611G800-SMD	1.000	PCS
5601	071LP57G800 FT	TI321611G800-SMD	1.000	PCS
5503	071LP57G800 FT	TI321611G800-SMD	1.000	PCS
5502	071LP57G800 FT	TI321611G800-SMD	1.000	PCS
5501	071LP57G800 FT	TI321611G800-SMD	1.000	PCS
5410	071LP57G800 FT	TI321611G800-SMD	1.000	PCS
6223	093G 60 1P	BAT54LT1 SOT-23	1.000	PCS
6220	093G 60 1P	BAT54LT1 SOT-23	1.000	PCS
6220	093G 60229	BAT54(L4P)	1.000	PCS
6223	093G 60229	BAT54(L4P)	1.000	PCS
6205	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6205	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6204	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6205	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6206	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6206	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6206	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS

6207	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6207	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6207	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6208	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6208	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6208	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6204	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6201	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6201	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6201	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6202	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6202	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6202	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6203	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6203	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6203	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6204	093G 64 33	DIO SIG SM BAV99 (PHSE)R	1.000	PCS
6222	093G 6432V	LL4148-GS08	1.000	PCS
6221	093G 6432V	LL4148-GS08	1.000	PCS
6221	093G 6432V	LL4148-GS08	1.000	PCS
6222	093G 6432V	LL4148-GS08	1.000	PCS
1601	093G 22S 51HEC	RES XTL SM 12MHZ 32 SMD-49 R	1.000	PCS
1410	093G 22S 53	14.31818MHZ/20PF	1.000	PCS
6209	093G 39S 66	DIO REG SM BZX84-C5V1 (PHSE)R	1.000	PCS
6209	093G 39S 66	DIO REG SM BZX84-C5V1 (PHSE)R	1.000	PCS
6222	093G 64S3PH	BAS32L	1.000	PCS
6221	093G 64S3PH	BAS32L	1.000	PCS
	715G1854 1	MAIN BOARD	1.000	PCS
	AIK780HP1SMTP	KEY BOARD FOR SMT	0.000	
3935	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000	PCS
3934	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000	PCS
3933	061L0603473	RST SM 0603 RC0603 47K PM5 R	1.000	PCS
1936	077G 604 1 AL	SWI TACT SM 1P 1POS SKQGAB R	1.000	PCS
1935	077G 604 1 AL	SWI TACT SM 1P 1POS SKQGAB R	1.000	PCS
1934	077G 604 1 AL	SWI TACT SM 1P 1POS SKQGAB R	1.000	PCS
1933	077G 604 1 AL	SWI TACT SM 1P 1POS SKQGAB R	1.000	PCS
1932	077G 604 1 AL	SWI TACT SM 1P 1POS SKQGAB R	1.000	PCS
1932	077G 604 1 FD	SWI TACT 1P 1POS 12V V 1MM5 R	1.000	PCS
1933	077G 604 1 FD	SWI TACT 1P 1POS 12V V 1MM5 R	1.000	PCS
1934	077G 604 1 FD	SWI TACT 1P 1POS 12V V 1MM5 R	1.000	PCS
1935	077G 604 1 FD	SWI TACT 1P 1POS 12V V 1MM5 R	1.000	PCS

1936	077G 604 1 FD	SWI TACT 1P 1POS 12V V 1MM5 R	1.000	PCS
6931	081G 14500 KB	LED VS SM KAA-3528YSGC (KIEL)R	1.000	PCS
	715G1855 1	KEY BOARD	1.000	PCS

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